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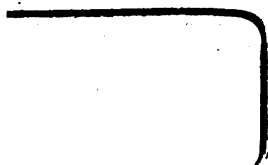
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14	Howard, Prof. F. H.			20	Congregational Church
25	Howes, Prof. G. E.	52	Goodrich Hall	11	Episcopal Church
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80	Johnson, Prof. C. W.	31	Griffin Hall	34	Roman Catholic Church
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CATALOGUE
OF
WILLIAMS COLLEGE

1918-1919



WILLIAMSTOWN, MASS.
PUBLISHED BY THE COLLEGE
1918

1918

JULY

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CALENDAR

1918-1919

1918

June 17—Commencement Monday
 July 1—Last day for re-application for scholarships Monday

SUMMER VACATION

Sept. 13-18—Examinations for admission...Fri., Sat., Mon., Tues., Wed.
 Sept. 17-19—Registration of all classes Tues., Wed., Thurs. forenoon
 Sept. 19—Beginning of the College Year Thursday
 Oct. 5—Last day for registering for the Master's Degree Saturday
 Oct. 10—Meeting of the Board of Trustees Thursday
 Oct. 9—Mountain Day, a holiday Wednesday
 Nov. 27-30—Thanksgiving Recess Wed. noon to Fri. noon
 Dec. 18—Christmas Recess begins 4:30 P. M. Wednesday

1919

Jan. 2—Christmas Recess ends 8:15 A. M. Thursday
 Jan. 13-18—Registration for the second semester Mon. through Sat.
 Jan. 24—Recitations end Friday
 Jan. 25-Feb. 5—Semi-annual examinations Sat. through Wed.
 Feb. 6, 7, 8—Mid-year Recess Thurs., Fri., Sat.
 Feb. 8—First semester ends Saturday

Feb. 9—Second semester begins Sunday
 Feb. 22—Washington's Birthday, a holiday Saturday
 Apr. 9—Spring Recess begins 4:30 P. M. Wednesday
 Apr. 17—Spring Recess ends 7:45 A. M. Thursday
 May 8—Meeting of the Board of Trustees Thursday
 May 19-24—Registration for the second semester Mon. through Sat.
 May 30—Memorial Day, a holiday Friday
 June 4—Recitations end Wednesday
 June 5-16—Semi-annual examinations Thurs. through Mon.
 June 16-21—Examinations for admission Mon. through Sat.
 June 20—Meeting of the Board of Trustees Friday
 June 20—Graves Prize Speaking Friday forenoon
 June 20—Class Day exercises Friday afternoon
 June 20—Prize Rhetorical Exhibition Friday evening

WILLIAMS COLLEGE

June	21—Alumni Meeting.....	Saturday forenoon
June	22—Baccalaureate Sermon.....	Sunday forenoon
June	22—Mission Park Meeting.....	Sunday afternoon
June	23—Commencement.....	Monday
July	1—Last day for re-application for scholarships.....	Tuesday

SUMMER VACATION

Sept.	12-17—Examinations for admission.....	Fri., Sat., Mon., Tues., Wed.
Sept.	16-18—Registration of all classes.....	Tues., Wed., Thurs., forenoon
Sept.	18—Beginning of the College Year.....	Thursday
Oct.	6—Last day for registering for the Master's Degree.....	Monday
Oct.	9—Meeting of the Board of Trustees.....	Thursday

 1920

June	21—Commencement.....	Monday
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13

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Instructor in French

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PERRY ALVAN SMEDLEY <i>Superintendent of Grounds and Buildings</i>	Grace Court
LAURIS GOLDSMITH TREADWAY, B.S. <i>Auditor of the Commissary Department</i>	Lynde Lane
<hr style="width: 10%; margin: 10px auto;"/>	
CHRISTINE PRICE, B.S. <i>Librarian in Charge</i>	147 Main St.
LUCY EUGENIA OSBORNE <i>Cataloguer</i>	147 Main St.
ETHEL GAREY, B.S. <i>Library Assistant</i>	27 Southworth St.
MARJORIE RUSSELL ROCKWOOD, B.S. <i>Library Assistant</i>	27 Southworth St.
ANNA MARTHA SWEETSER, B.S. <i>Library Assistant</i>	27 Southworth St.
GLADYS SHELDON, B.S. <i>Assistant Alumni Secretary</i>	153 Main St.

* Absent on leave.

*HELEN MAY NETHERWOOD		North Adams
	<i>Stenographer</i>	
EMMA LOUISE NETHERWOOD		North Adams
	<i>Stenographer</i>	
LILIAN MAY MUIR		North Adams
	<i>Stenographer</i>	
EDITH MARGUERITE MERRIAM		North Adams
	<i>Stenographer</i>	

*Absent on leave.

STANDING COMMITTEES OF THE FACULTY
1918-1919

COMMITTEE ON ADMINISTRATION

THE PRESIDENT, *Chairman*

THE CHAIRMAN PRO TEMPORE OF THE FACULTY

THE DEAN OF THE COLLEGE

PROFESSOR MORTON

PROFESSOR PRATT

PROFESSOR CLELAND

PROFESSOR DOUGHTY

ADVISORY COMMITTEE

THE PRESIDENT, *Chairman*

PROFESSOR McELFRESH

DEAN MAXCY

PROFESSOR WESTON

PROFESSOR SMITH

PROFESSOR WETMORE

ASSISTANT PROFESSOR SHEPARD

LIBRARY COUNCIL

THE PRESIDENT, *Chairman*

PROFESSOR McLAREN

THE LIBRARIAN

PROFESSOR CLELAND

PROFESSOR REES

COMMITTEE ON ADMISSIONS

DEAN MAXCY, *Chairman*

ASSISTANT PROFESSOR GALBRAITH

PROFESSOR WILD

ASSISTANT PROFESSOR RICE

PROFESSOR HARDY

ASSISTANT PROFESSOR LONG

ASSISTANT PROFESSOR BUFFINTON

MR. GREEN, *Secretary*

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PROFESSOR KELLOGG, *Chairman* **PROFESSOR MEARS**
ASSISTANT PROFESSOR HEWITT

COMMITTEE ON CURRICULUM

PROFESSOR McELFRESH, *Chairman* **PROFESSOR PRATT**
PROFESSOR SMITH **PROFESSOR MEARS**
PROFESSOR HARDY **ASSISTANT PROFESSOR DUTTON**
ASSISTANT PROFESSOR LONG

COMMITTEE ON PRIZES

PROFESSOR MILHAM, *Chairman* **ASSISTANT PROFESSOR CLARK**
ASSISTANT PROFESSOR LICKLIDER

COMMITTEE ON GRADUATE STUDENTS

PROFESSOR WETMORE, *Chairman* **PROFESSOR McLAREN**
PROFESSOR REES **ASSISTANT PROFESSOR AGARD**

COMMITTEE ON ATHLETICS

PROFESSOR DOUGHTY, *Chairman* **DEAN MAXCY**
ASSISTANT PROFESSOR ALLEN

COMMITTEE ON THE HONOR SYSTEM

PROFESSOR WESTON, *Chairman* **ASSISTANT PROFESSOR RICE**
ASSISTANT PROFESSOR ALLEN **ASSISTANT PROFESSOR GRISCOM**

COMMITTEE ON STUDENT AND ALUMNI EMPLOYMENT

MR. BOTSFORD, *Chairman* **PROFESSOR MILHAM**
PROFESSOR KELLOGG

WILLIAMS COLLEGE

The college owes its origin to an educational bequest of Colonel Ephraim Williams for the purpose of establishing "a Free School" in Williamstown. The charter of this school, which was granted March 8, 1785, reads as follows:

AN ACT for directing the use and appropriation of a charitable donation, made in a certain clause in the last will and testament of Ephraim Williams, Esq., for the support and maintenance of a Free School in Williamstown, in the County of Berkshire; and for incorporating certain persons as trustees, in order more effectually to execute the intention of the testator, expressed in the same.

Whereas, Israel Williams, Esq., and John Worthington, Esq., executors of the last will and testament of Ephraim Williams, Esq., deceased, have represented to this court that the said Ephraim Williams, on the twenty-second day of July, Anno Domini one thousand seven hundred and fifty-five, made his last will and testament, in which, after divers bequests, devises, and dispositions, is contained the following clause, viz.:

Item: "It is my will, desire, and pleasure that the remaining part of the lands, not yet disposed of, shall be sold at the discretion of my executors, within five years after an established peace; and the interest of the money and also the interest arising from my bonds and notes shall be appropriated towards the support and maintenance of a Free School, in a township west of Fort Massachusetts, commonly called the West Township, forever; provided, the said township shall fall within the jurisdiction of the Province of Massachusetts Bay; and provided, also, the Governor and General Court give the same township the name of Williamstown; and it is further my will and desire, that if there shall remain any monies of the said above donation for the school, it be given towards the support of a school in the East Township, where the fort now stands; but in case the above provisos are not complied with, then it is my last will and choice that the interest of the above-mentioned monies be appropriated to some pious and charitable uses, in manner and form as above directed in the former part of my last will and testament."

And, whereas the said executors have further represented that it may be a matter of doubt and uncertainty whether the township mentioned in the above recited clause (which is now incorporated by the name of Williamstown)

has so far fallen within the jurisdiction of the Province of Massachusetts, now Commonwealth of Massachusetts, in the sense of the testator, as that they might be justified in appropriating the said donation to the support and maintenance of a Free School in said town; and have submitted their duty to the determination of this court, praying that an act may be passed to declare their duty, and to indemnify them in the execution of the same.

SECTION 1. Be it enacted by the Senate and the House of Representatives, in General Court assembled, and by authority of the same, that the donation made in the clause before recited ought to be presently applied to the use and maintenance of a Free School in the town of Williamstown, in the County of Berkshire, and that in case the said donation shall afford an annual interest more than sufficient for the supporting and maintaining such school in Williamstown, then the surplusage be appropriated to the use and maintenance of a Free School in the tract of land called by the testator East Township, now incorporated by the name of Adams, with other lands, applying and appropriating the said donation to the uses above expressed, and shall be liable to no action or suit in law or equity, on account of such appropriations.

And, whereas the said executors have further prayed that for carrying into complete execution the intention of the testator, a corporation may be created and vested with such powers as may be necessary for that purpose;

SECTION 2. Be it further enacted by the authority aforesaid, that William Williams of Dalton, Theodore Sedgwick, Woodbridge Little, John Bacon, Thompson Joseph Skinner, Esquires, the Reverend Seth Swift and Daniel Collins, Mr. Israel Jones and Mr. David Noble, and their successors, to be elected and appointed as hereinafter directed and provided, be, and hereby are, incorporated, and shall be a corporation forever by the name of "The Trustees of the donation of Ephraim Williams, Esq., for maintaining a Free School in Williamstown"; and that the said trustees and their successors be, and hereby are, vested with all the powers, rights, and immunities, which are by law incident to aggregate eleemosynary corporations.

SECTION 3. And be it further enacted, that the said corporation shall always consist of a number not less than seven, nor more than nine persons, excepting only that whenever a vacancy shall happen by death, removal, refusal, or resignation of any member or members, so that the number be reduced to less than seven, the aforesaid number, then the remaining or surviving trustees shall have full power to perform all corporate acts until such vacancy be supplied; and the said trustees shall elect and appoint a clerk of the corporation, who shall fairly enter and record all votes, acts, orders, and proceedings made, done or passed by the trustees; and shall elect a proper person to be their treasurer, who shall receive into his hands all monies belonging to

the corporation and pay the same pursuant to the order of the trustees, and shall always keep a fair account of all receipts and payments.

SECTION 4. And be it further enacted, that the power of electing and appointing successors in case of the death, removal, refusal, or resignation of any of the trustees be, and hereby is, vested solely in the Supreme Judicial Court of this Commonwealth; and whenever any of the above-mentioned cases shall happen, the trustees shall, as soon as conveniently may be, certify the same to the Justices of the said court, that a successor may be appointed; and the Justices of the same court are hereby empowered to remove from office and trust any member of the corporation who shall, in their judgment, be unfit to hold the same, by reason of incapacity, misdemeanor, negligence, or breach of trust.

And to the intent that the said donation may not be wasted, mismanaged or perverted from its original intention;

SECTION 5. Be it further enacted by the authority aforesaid, that the said corporation, and the donation itself, shall always be under the visitation and direction of the Supreme Judicial Court, who are hereby empowered to visit the said corporation to rectify all abuses, to determine all matters of doubt or dispute touching the duty of the trustees, and the use, application, or appropriation of monies or interests to the same donation belonging; and to make all such orders and regulations with respect to the use, management, and appropriation of the same donation and every part thereof, as they shall judge necessary or useful in order to promote the best interests of the school, according to the true meaning and intention of the testator and such laws of this Commonwealth as may be in force respecting the same; and the said court, whenever they shall judge necessary, shall cause the said trustees to come before them, either to render an account of expenditures and dispositions of monies, or to answer for any mismanagement or breach of trust; and the trustees shall appear and lay their accounts, papers, records, and corporation books before the said court for inspection, whenever they shall be required thereto.

SECTION 6. And be it further enacted, that the said trustees and their successors forever shall have the possession, management, and disposition of the whole interest and estate, real and personal, which is contained in and given, bequeathed, devised, or disposed of by the above recited clause in the will aforesaid; and they are hereby empowered and directed, as soon as conveniently may be, to erect and maintain a Free School within the said town of Williamstown, for the instruction of youth, in such manner as most effectually to answer the pious, generous, and charitable intention of the testator, and agreeable to such orders and instructions as they may, from time to time, receive from the Supreme Judicial Court; and they are hereby empowered to

appoint and employ such instructors, masters, and officers, as shall be necessary for that purpose.

And to the intent that the said trustees may be enabled, in the most easy and expeditious manner, to receive in their own possession and management, the whole estate, property, and interest, contained in the aforesaid donation;

SECTION 7. Be it further enacted by the authority aforesaid, that the said executors shall, at the request of the trustees, make and execute to the said trustees a deed or deeds of conveyance of all such lands or real estate as belong to said donation, and yet remain unsold, in which deed or deeds it shall be expressed that the executors do grant to the trustees the right, estate, and interest of the testator, and of themselves, in and to the described lands or tenements to the trustees and their successors forever; and the said executors shall deliver over into the hands of the trustees, at their request, all such personal securities or mortgages as the executors now have in their own hands, and which are a part of the same donation; all of which securities, whether bonds, promissory notes, mortgage deeds, or of what name or description soever, being endorsed with the names of the said executors, or one of them, and delivered as aforesaid, shall become the property of the trustees to all intents and purposes; and they are hereby empowered, in the name of the corporation, to bring any action or actions against the obligors, promisors, mortgagors, or tenants, for recovering the contents of the same securities, or possession of mortgaged estates, which action or actions shall be holden to be good and valid in law for that purpose, as if the securities or mortgage deeds had been originally made to the trustees by their corporate names.

And, whereas the testator has directed that in case his principal donations should afford an interest more than sufficient for the support and maintenance of the school in Williamstown, the surplusage should be improved to the use of a school in the East Township, now called Adams, in the said County of Berkshire; and whereas questions and disputes may arise touching the nature, meaning, and extent of this part of the will, and where there may be said to be a surplusage beyond what should be necessary, according to the intent of testator, for the support of the school in Williamstown;

SECTION 8. Be it further enacted, that in case of such surplusage, the said trustees are hereby empowered and directed to use and employ the same for erecting and supporting a Free School in the said town of Adams, in the same manner as has been in this act before provided in respect of the school in Williamstown; and that all questions and disputes that may arise concerning such surplusage, and the duty of the trustees in respect of the several schools, shall be determined by the Supreme Judicial Court; and the trustees shall always conform their conduct and administration herein to such orders and determinations as shall, from time to time, be made by the same court.

SECTION 9. And be it further enacted, that the Supreme Judicial Court may, at their discretion, exercise all the powers vested in them by virtue of this act, at any of the sessions holden within the counties of Berkshire or Hampshire; and in all trials at law, the court, ex-officio, shall take notice of this act to all intents and purposes whatsoever, and the same shall be given in evidence under any general issue.

At their first meeting, April 24, 1785, the trustees passed a resolution to the effect that "it is the sense of the corporation that the Free School in Williamstown be open and free for the use and benefit of the inhabitants of that town and of the free citizens of the American States indiscriminately." They also decided that "it will best coincide with the liberal views of the donor and the intention of the legislature to admit no pupil to the Free School * * * not having been taught to read English well."

As they found it difficult to collect the necessary funds for erecting a building, the trustees sent a petition, August 19, 1788, to the legislature, "for the grant of a lottery to raise the sum of twelve hundred pounds." Accordingly an act was passed February 11, 1789, making such a grant.

The initial step toward a transformation of the Free School into a college was taken at a meeting of the trustees, May 23, 1792. In a petition to the legislature they "humbly showed" what had been done already, and set forth the "several circumstances attending the situation of the Free School * * * peculiarly favorable to a seminary of a more public and important nature." The petition was granted, and an act to establish the college and to transfer to it the property of the Free School was passed June 22, 1793:

AN ACT to establish a college in the County of Berkshire, within this Commonwealth, by the name of Williams College.

Be it enacted by the Senate and House of Representatives, in the General Court assembled, and by the authority of the same, that there be erected and established in the town of Williamstown, in the County of Berkshire, a college for the purpose of educating youth, to be called and known by the name of Williams College, to be under the government and regulation of a body politic and corporate, as hereafter in this act provided.

And be it further enacted by the authority aforesaid, that John Bacon, Esq., Rev. Daniel Collins, Israel Jones, Woodbridge Little, David Noble, Theodore Sedgwick, Thompson J. Skinner, Esquires, Rev. Seth Swift, Henry Vancaak, Esq., Rev. Stephen West, D.D., William Williams and Elijah Williams, Esquires, together with the president of the said college for the time being, to be chosen as in this act is hereafter directed, be and hereby are created a body politic and corporate, by the name of "The President and Trustees of Williams College," and that they and their successors, and such others as shall be duly elected members of the said corporation, shall be and remain a body politic and corporate, by that name forever.

And be it further enacted by the authority aforesaid, that for the more orderly conducting the business of the said corporation, The President and Trustees shall have full power and authority from time to time, as they shall determine, to elect a vice president and secretary of the said corporation and to declare the tenures and duties of their respective offices and also to remove any trustee from the said corporation, when, in their judgment, he shall be rendered incapable, by age or otherwise, of discharging the duties of his office or shall neglect or refuse to perform the same, and to fill up all vacancies in the said corporation, by electing such persons for trustees as they shall judge best. Provided, nevertheless, that the number of the said trustees, including the president of the said college, for the time being, shall never be greater than seventeen nor less than eleven.

And be it further enacted that the said corporation may have one common seal, which they may change, break or renew, at their pleasure; and that all deeds signed and delivered by the treasurer, and sealed with their seal, by order of The President and Trustees, shall, when made in their corporate name, be considered in law as the deed of the said corporation; and that the said corporation may sue and be sued in all actions, real, personal or mixed, and may prosecute and defend the same to final judgment and execution, by the name of The President and Trustees of Williams College; and that the said corporation shall be capable of having, holding and taking in fee simple of any less estate, by gift, grant, devise, or otherwise, any lands, tenements or other estate real or personal. Provided, nevertheless, that the annual clear income of the same shall not exceed the sum of six thousand pounds.

And be it further enacted by the authority aforesaid, that the said corporation shall have full power and authority to determine at what times and places their meetings shall be holden and in the manner of notifying the trustees to convene at such meetings; and also from time to time, elect a president and treasurer of said college, and such professors, tutors, instructors, and other officers of said college as they shall judge most for the interest thereof, and to determine the duties, salaries, emoluments and tenures of their several officers aforesaid; the said president, for the time being, when elected and inducted into his office, to be, ex-officio, president of said corporation. . And the said

corporation are further empowered to purchase or erect, and to keep in repair, such houses and other buildings as they shall judge necessary for the said college; and also to make and ordain, as occasion may require, reasonable rules, orders and by-laws, not repugnant to the laws of this Commonwealth, with reasonable penalties, for the good government of the said college; and also to determine and prescribe the mode of ascertaining the qualifications of the students, requisite to their admission; and also to confer such degrees as are usually conferred by universities established for the education of youth. Provided, nevertheless, that no corporate business shall be transacted at any meeting, unless seven at least of the trustees are present; and provided further, that the said corporation shall confer no degree other than those of Bachelor of Arts and Master of Arts, until after the first day of January, which shall be in the year of our Lord one thousand eight hundred.

And be it further enacted by the authority aforesaid, that the clear rents, issues and profits of all the estates, real and personal, of which the said corporation shall be seized or possessed, shall be appropriated to the endowment of said college, in such manner as shall most effectually promote virtue and piety, and the knowledge of such of the languages, and of the liberal arts and sciences as shall hereafter be directed from time to time, by the said corporation.

And be it further enacted by the authority aforesaid, that the Hon. Thompson J. Skinner, Esq., be, and he is hereby authorized and empowered to fix the time and place for holding the first meeting of the said corporation, of which he shall give notice by an advertisement in the Stockbridge newspapers, at least fourteen days previous thereto.

And be it further enacted by the authority aforesaid, that the treasurer of the said college shall, before he enter upon the execution of the duties of his office, give bonds to the said corporation, with such sums, and with such sureties as they shall approve of, conditioned for the faithful discharge of the said office, and for rendering a just and true account of his doings therein, when required. And that all the money, securities and other property of The President and Trustees of Williams College, together with all the books in which his accounts and proceedings as treasurer were entered and kept, that shall be in his hands at the expiration of his office, shall, upon demand made upon him, his executors or administrators, be paid and delivered over to his successor in that office. And all monies recovered by virtue of any suit at law, upon said bond, shall be paid over to the president and trustees aforesaid, and subjected to the appropriation above directed in this act.

And be it further enacted by the authority aforesaid, that the Legislature of this Commonwealth may grant any further powers to, or alter, limit, annul or restrain any of the powers by this act vested in said corporation, as shall be judged necessary to promote the best interest of the said college; and, more especially, may appoint and establish overseers or visitors of the said college, with all necessary powers and authorities for the better aid, preservation and government thereof.

And be it further enacted by the authority aforesaid, that all the property, real and personal, belonging to the trustees of Williamstown Free School, be, and the same hereby is vested in the corporation, which by this act is created.

And be it further enacted by the authority aforesaid, that there be, and hereby is granted to the trustees of Williams College, for the use, benefit and purpose of supporting said college, twelve hundred pounds, to be paid out of the treasury of this Commonwealth; three hundred pounds of the same to be paid the first day of September, one thousand seven hundred and ninety-three, and three hundred pounds annually, on the first day of September, for the three succeeding years.

February 26, 1796, an additional act was passed, as follows:

Whereas, Doubts have arisen whether the rights and credits which, previous to passing the act aforesaid, were vested in and belonging to the trustees of the donation of Ephraim Williams, Esquire, for maintaining a Free School in Williamstown, are by virtue of the same act transferred to and vested in the corporation of The President and Trustees of Williams College:

Be it therefore enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same, that the said rights and credits be and hereby are transferred to and vested in the said Corporation of The President and Trustees of Williams College, who are hereby authorized to commence and prosecute to their final judgment and execution, any suit or action in law or equity, which the said trustees of the donation of Ephraim Williams, Esquire, for maintaining a free school in Williamstown, might heretofore have commenced or prosecuted.

On petition of the trustees the legislature passed an act February 4, 1796, granting the college two townships of land "of the contents of six miles square each, to be laid out and assigned from any of the unappropriated lands belonging to this Commonwealth in the district of Maine." The act provided that the trustees "shall cause to be settled fifteen families in each of said townships within twelve years from the passing this resolve; and also that there be reserved in each township three lots of three hundred and twenty acres each for the following uses, viz., one lot for the first settled minister, one lot for the use of the ministry, and one lot for the use of schools in each of said townships." These lands were sold for about \$10,000, and the proceeds devoted to building East College.

Nine years later the college again appealed to the legislature for assistance. A committee of that body, which investigated the condition and prospects of the institution, made the following report, February 19, 1805:

The Committee of both Houses, to whom was referred the petition of The President and Trustees of Williams College, praying the aid of government to enable them to build a chapel for the performance of divine service, and for keeping the college library and apparatus, having examined the origin, rise and progress of the seminary, from its institution to the present time, together with the aid heretofore afforded by the government, and the existing state of its funds, beg leave to observe, That the funds granted by the original donor and the government have, in the opinion of the Committee, been judiciously applied to the object of the institution, and with success exceeding the most sanguine expectations, and that the present state of the college affords a reasonable and pleasing expectation of its future extensive benefits to society, and that a chapel for the purposes above mentioned would essentially promote the same; and as the encouragement and grants of the government to that college have not been equal to those made to other seminaries in the Commonwealth, the Committee ask leave to report the following resolve:

Resolved, For reasons set forth in the petition, that there be and hereby is granted one township of land of the contents of six miles square to be laid out and assigned from any of the unappropriated lands belonging to the Commonwealth, in the District of Maine, except the ten townships lately purchased of the Penobscot Indians. * * *

In 1809 the legislature granted another township of land in Maine "for further aid in support of Williams College and for the erecting of other buildings for the convenience of the institution and for sustaining a professor of the Oriental languages." The sum of \$9,500 was realized from the last two townships.

The legislature passed an act February 24, 1814, "for the Encouragement of Literature, Piety and Morality and the Useful Arts and Sciences," and appropriated the taxes due to the Commonwealth from the Massachusetts Bank, "for the ten years next to come," to Harvard, Williams, and Bowdoin. Of this fund Williams received three-sixteenths which amounted to \$30,000. In 1859 the State gave the College \$25,000 and in 1868, \$75,000. The total of these legislative gifts is \$153,500.

In 1883 the following act was passed:

AN ACT to authorize The President and Trustees of Williams College to hold additional real and personal estate.

[Be it enacted, etc., as follows:]

SECTION 1. The proviso in section 4 of the act establishing Williams College, passed on the twenty-second day of June in the year seventeen hundred and ninety-three, is hereby amended so as to read: "Provided, nevertheless, that the clear annual income of the same shall not exceed two hundred thousand dollars."

SECTION 2. This act shall take effect upon its passage.

In 1890 the legislature passed the following act:

The corporation known as The President and Trustees of Williams College and its standing committees may hold special meetings without the limits of the Commonwealth.

In 1906 the legislature passed the following act:

AN ACT to authorize The President and Trustees of Williams College to hold additional real and personal property.

[Be it enacted, etc., as follows:]

SECTION 1. The proviso at the end of section four of the act establishing Williams College, passed on the twenty-second day of June in the year seventeen hundred and ninety-three, as amended by chapter thirty-nine of the acts of the year eighteen hundred and eighty-three is hereby further amended by striking out the words "two hundred thousand," in the last line of the proviso, and inserting in place thereof the words:—one million,—so that the proviso will read as follows:—Provided, nevertheless, that the clear annual income of the same shall not exceed one million dollars.

SECTION 2. This act shall take effect upon its passage.

The principal college buildings with the dates of their erection are as follows: West College, 1790; East College, 1798, burned in 1841, rebuilt in 1842; Fayerweather Hall, 1842, formerly South College, remodeled and enlarged, 1905; Griffin Hall, 1828, moved and remodeled in 1904; Hopkins Observatory, 1837; Lawrence

Hall, 1846, extensions added in 1890; Goodrich Hall, 1859, formerly the Alumni Hall Chapel, remodeled and converted into recitation and seminar rooms in 1905; Field Memorial Observatory, 1882; Morgan Hall, 1882; Lasell Gymnasium 1886; Hopkins Memorial Hall, 1890; Thompson Chemical Laboratory, 1892, burned in 1915, rebuilt in 1916; Thompson Biological Laboratory, 1893; Thompson Physical Laboratory, 1893; Jesup Hall, 1899; Thompson Memorial Chapel, 1904; Central Heating Plant, 1904; Berkshire Hall, 1905; Edward Clark Hall, 1908, original structure erected in 1881; Currier Hall, 1908; Grace Hall, 1911; Williams Hall, 1911; Thompson Infirmary, 1911.

ADMISSION

All correspondence in matters of admission should be addressed to the Registrar.

REQUIREMENTS FOR ADMISSION

An application for admission should be filed by every candidate. It is desired that this be done not later than August 1st of the year in which it is proposed to enter college. A blank for this purpose is inserted in this catalogue. Additional copies can be secured from the Registrar.

Every candidate for admission must present a testimonial of good character from the principal under whom he was prepared for college. *This must be submitted before the attendance on college exercises begins.*

Candidates for admission to the Freshman class must present satisfactory qualifications in one of the following groups of subjects, the work covered by the subjects being given in detail in the pages following. Students admitted in any of the five admission groups are candidates for the degree of Bachelor of Arts.

The notation used agrees with that of the College Entrance Examination Board.

ADMISSION GROUP I

English 1 and 2
Greek A, B, C, and G
History A
Latin 1, 2, 4, and 5
Mathematics A and C
An Elective

ADMISSION GROUP II

English 1 and 2
*French A and B
History A
Latin 1, 2, 4, and 5
Mathematics A and C
An Elective

* The passing of French B does not entitle to credit in French A. Both French A and French B must be passed.—See footnote, p. 44.

APPLICATION FOR ADMISSION

The undersigned hereby applies for admission to Williams College and submits the following information for the accuracy of which he vouches.

Full name.....Age in yrs....

Home address.....

Name of parent or guardian and address (if different from your own)

Name of preparatory school from which candidate expects to
come.....

Address of school.....

Name of principal.....

Total number of years of attendance at this school.....

Year in which candidate expects to enter college.....

Admission group to be offered by candidate.....

Method of admission: (indicate by a check mark)

By examination.....; by certificate.....; by both

*No obligation is incurred by filing this application, which should
be sent (preferably prior to August first) to*

THE REGISTRAR OF WILLIAMS COLLEGE,
WILLIAMSTOWN, MASS.

Signature.....

Date.....

Application for scholarship aid should be made to the Chairman of the
Committee on Scholarships.

Application for rooms in the college dormitories should be made to the
Treasurer.

ADMISSION GROUP III

English 1 and 2
 *German A and B
 History A
 Latin 1, 2, 4, and 5
 Mathematics A and C
 An Elective

ADMISSION GROUP IV

English 1 and 2
 French A
 History A
 Latin 1, 2, 4, and 5
 Mathematics A, B, C, D, and F
 An Elective

ADMISSION GROUP V

English 1 and 2
 German A
 History A
 Latin 1, 2, 4, and 5
 Mathematics A, B, C, D, and F
 An Elective

The elective required may be chosen by the candidate from the following lists, it being understood that no subject specified as a requirement of a particular admission group (like French A or French B in Admission Group II) may serve as the elective in that group.

CLASS A

Biology
 Botany
 Chemistry
 History B
 History C
 History D
 History E
 Physics
 Zoölogy

CLASS B

French A
 French B
 German A
 German B
 Mathematics B
 Mathematics D
 Mathematics F
 Spanish A
 Spanish B

The subjects in Class A may be presented by certificate or by examination; the subjects in Class B may be presented by certificate or by examination when they are to be employed in fulfilling the specific admission requirements of a given group. When offered with the object of gaining college credit the subjects in Class B must be presented by examination.

The number of year-hours required for graduation is sixty-two

* The passing of German B, does not entitle to credit in German A. Both German A and German B must be passed.—See footnote, p. 44.

if the candidate offers an elective of Class A or an elective of Class B by certificate; if he offers an elective of Class B by examination, the number of hours required for graduation is reduced by one for Mathematics *B* or Mathematics *D*; by two for Mathematics *F*; and by three for French *A*, French *B*, German *A*, German *B*, Spanish *A*, or Spanish *B*. If a candidate offers two or more of the electives of Class B by examination (selecting those not specifically required in his admission group), the requirement for graduation is diminished by the corresponding total number of hours. (See page 52.)

The details of the requirements in all subjects except Biology, botany, Chemistry, History *E*, and Zoölogy are given in the following pages. English includes in every case English *1* and *2*; Greek includes Greek *A*, *B*, *C*, and *G*; and Latin includes Latin *1*, *2*, *4*, and *5*.

The details of the requirements in Biology, Botany, Chemistry, History *E*, and Zoölogy are to be found in the publications of the College Entrance Examination Board.

ADMISSION WITH CONDITIONS

Candidates who fail to meet in full the requirements indicated above may be admitted under conditions which require them to pass examinations later in the subjects in which they are deficient. The requirements for admission without conditions are specified above; but, as the terms of admission with conditions must vary with individual records, each case of such admission will be considered on its own merits by the Committee on Admissions. In general, the maximum number of units of condition permitted by the Committee is two.

DETAILS OF SUBJECTS

ENGLISH

REQUIREMENTS FOR 1919

The study of English in school has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation.

I GRAMMAR AND COMPOSITION

The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary-school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

II LITERATURE

The second object is sought by means of two lists of books, headed respectively *Reading* and *Study*, from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud and be encouraged to commit to memory some of the more notable passages both in verse and in prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

A READING

The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature by giving him a first-hand knowledge of some of the best specimens. He should read the books carefully, but his attention should not be so fixed upon details as to cause him to miss the main purpose and charm of what he reads.

B STUDY

This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and

1. The first part of the document is a letter from the President of the United States to the President of the Senate, dated January 1, 1901. The letter is signed by William McKinley and is addressed to John D. Long. The letter is a copy of a letter that was sent to the President of the Senate by the President of the United States.

1. 2. 3. 4.

1. ~~For the purpose of this investigation, it is necessary to~~
~~obtain the following information:~~
~~a. The name and address of the person who~~

1. The above information was obtained from the files of the FBI, New York Office, and is being furnished to you for your information.

1. THE UNITED STATES OF AMERICA

[illegible]

Indoor

'I am a ~~person~~ ~~of~~ ~~the~~ ~~highest~~ ~~will~~ ~~rejoice~~

A candidate is not to be judged on the basis of his own knowledge and understanding of literature as he may be judged by fulfilling the requirements of the school's course which is learning. The candidate will be required to demonstrate that he has read the books read in preparation for the examination and to try the principles of the school in which he was prepared, but that he will not be made the basis of his own knowledge.

If a text in the books prescribed for study, which will consist of quotations upon their content, form, and structure, and upon the meaning of such words, phrases, and allusions as may be necessary to an understanding of the works and an appreciation of their salient qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

For the class entering in 1919 the requirements are those adopted by the National Conference on Uniform Entrance Requirements in English, in 1912. For the classes entering in 1920, 1921, and 1922 the requirements are those adopted by the National Conference in 1916. A copy of these requirements may be secured on application to the Secretary of the Committee on Admissions, Williams College.

In June candidates may take either the English 1 and 2 papers or the Comprehensive English as offered by the College Entrance Examination Board; at the Williams College examinations in September, however, only English 1 and 2 will be offered. (See p. 45.)

FRENCH

A THE ELEMENTARY REQUIREMENT

The Aim of the Instruction. At the end of the elementary course the pupil should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life or based upon a portion of the French text read, and to answer questions on the rudiments of the grammar as defined below.

The Work to be done. During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles, and pronouns; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in the memory the form and the principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and the use of pronouns, pronominal adjectives, of

all but the rare irregular verb forms, and of the simpler uses of the conditional and the subjunctive.

Suitable texts for the second year are: About's *Le roi des montagnes*, Bruno's *Le tour de la France*, Daudet's *cahier* short tales, La Bédollière's *La Mère Michel et son chat*, Erckmann-Chatrian's stories, *Foa's Contes biographiques* and *Le petit Robinson de Paris*, Poncin's *Le pays de France*, Labiche and Martin's *La poudre aux yeux* and *Le voyage de M. Perrichon*, Legouvé and Labiche's *La cigale chez les fourmis*, Malot's *Sans famille*, Mairat's *La tâche du petit Pierre*, Mérimée's *Colomba*, extracts from Michelet, Sarcy's *Le siège de Paris*, and Verne's stories. See footnote, p. 44.

B THE INTERMEDIATE REQUIREMENT

The Aim of the Instruction. At the end of the intermediate course the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

The Work to be done. This should comprise the reading of from 400 to 600 pages of French of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving French paraphrases, abstracts, or reproductions from memory, of selected portions of the matter read; the study of a grammar of moderate completeness; and writing from dictation.

Suitable texts are: About's stories, Augier and Sandeau's *Le gendre de M. Poirier*. Béranger's poems, Corneille's *Le Cid* and Horace, Coppée's poems, Daudet's *La Belle Nivernaise*, La Brète's *Mon oncle et mon curé*, Madame de Sévigné's letters, Hugo's *Hernani* and *La Chute*, Labiche's plays, Loti's *Pêcheur d'Irlande*, Mignet's historical writings, Molière's *L'avare* and *Le bourgeois gentilhomme*, Racine's *Athalie*, *Andromaque*, and *Esther*, George Sand's plays and stories, Sandeau's *Mademoiselle de la Seiglière*, Scribe's plays, Thierry's *Récits des temps mérovingiens*, Thiers's *L'expédition de Bonaparte en Egypte*, Vigny's *La canne de jonc*, and Voltaire's historical writings.

SPANISH

A THE ELEMENTARY REQUIREMENT

The Aim of the Instruction. The primary purposes of the elementary course are to teach (a) accurate pronunciation of Spanish (as spoken both in Spain and in Spanish-America); (b)

the understanding of spoken Spanish; (c) the translation of simple, idiomatic English phrases and sentences into their equivalent simple, idiomatic Spanish; (d) the expression in spoken Spanish of ideas about the usual experiences of life and also about the content of the texts used in the class.

B THE INTERMEDIATE REQUIREMENT

The Aim of the Instruction. The intermediate course should be a continuation of the elementary work, with certain added features, such as (a) conversation and, in general, much expression in spoken Spanish of connected ideas and (b) the translation of connected English prose into Spanish.

The requirements in Spanish follow the recommendations of the Committee of Five of the Modern Language Association of America. Further information regarding advisable methods and suitable texts will be furnished, upon application, by the Registrar of Williams College.

GERMAN

A THE ELEMENTARY REQUIREMENT

The Aim of the Instruction. At the end of the elementary course in German the pupil should be able to read at sight, and to translate, if called upon, by way of proving ability to read, a passage of very easy dialogue or narrative prose, help being given upon unusual words and constructions, to put into German short English sentences taken from the language of everyday life or based upon the text given for translation, and to answer questions upon the rudiments of grammar, as defined below.

The Work to be done. During the first year the work should comprise: (1) careful drill upon pronunciation; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar, that is, upon the inflection of the articles, of such nouns as belong to the language of everyday life, of adjectives, pronouns, weak verbs, and the more usual strong verbs; also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English),

and in the reproduction from memory of sentences previously read.

During the second year the work should comprise: (1) the reading of from 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in the translation into German of easy variations upon the matter read and also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the grammar, directed to the ends of enabling the pupil, first, to use his knowledge with facility in the formation of sentences, and, secondly, to state his knowledge correctly in the technical language of grammar.

Stories suitable for the elementary course can be selected from the following list: Andersen's *Märchen* and *Bilderbuch ohne Bilder*, Arnold's *Fritz auf Ferien*; Baumbach's *Die Nonna* and *Der Schwiegersohn*; Gerstäcker's *Germelshausen*; Heyse's *L'Arrabbiata*, *Das Mädchen von Treppi*, and *Anfang und Ende*; Hillern's *Höher als die Kirche*; Jensen's *Die Braune Erica*; Leander's *Träumereien* and *Kleine Geschichten*; Seidel's *Märchen*; Stöckl's *Unter dem Christbaum*; Storm's *Immensee* and *Geschichten aus der Tonne*; and Zschokke's *Der zerbrochene Krug*.

Good plays adapted to the elementary course are much harder to find than good stories. Five-act plays are too long. They require more time than it is advisable to devote to any one text. Among shorter plays the best available are perhaps Benedix's *Der Prozess*, *Der Weiberfeind*, and *Günstige Vorzeichen*; Els's *Er ist nicht eifersüchtig*; Wichert's *An der Majorsecke*; and Wilhelm's *Einer muss heiraten*. It is recommended, however, that not more than one of these plays be read. The narrative style should predominate. A good selection of reading matter for the second year would be Andersen's *Märchen*, or *Bilderbuch*, or Leander's *Träumereien*, to the extent of, say, forty pages. After that such a story as *Das kalte Herz*; or *Der zerbrochene Krug*; then, *Höher als die Kirche*, or *Immensee*; next, a good story by Heyse, Baumbach, or Seidel; and lastly, *Der Prozess*. See footnote, p. 44.

B THE INTERMEDIATE REQUIREMENT

The Aim of the Instruction. At the end of the intermediate course the pupil should be able to read at sight German prose of ordinary difficulty, whether recent or classical; to put into German a connected passage of simple English, paraphrased

from a given text in German; to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation, and to translate and explain (so far as explanation may be necessary) a passage of classical literature taken from some text previously studied.

The Work to be done. The work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory, of selected portions of the matter read; also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and subjunctive), and likewise upon word-order and word-formation.

The intermediate course is supposed to be the elementary course, plus one year's work at the rate of not less than four recitations a week. Suitable reading matter for the third year can be selected from such works as the following: Ebner-Eschenbach's *Die Freiherren von Gemperlein*, Freytag's *Die Journalisten* and *Bilder aus der deutschen Vergangenheit*—for example, *Karl der Grosse*, *Aus den Kreuzzügen*, *Doktor Luther*, *Aus dem Staat Friedrichs des Grossen*; Fouque's *Undine*; Gerstäcker's *Irrfahrten*; Goethe's *Hermann und Dorothea* and *Iphigenie*; Heine's poems and *Reisebilder*; Hoffmann's *Historische Erzählungen*; Lessing's *Minna von Barnhelm*; Meyer's *Gustav Adolfs Page*; Moser's *Der Bibliothekar*, Riehl's *Novellen*—for example, *Burg Neideck*, *Der Fluch der Schönheit*, *Der Stumme Ratsherr*, *Das Spielmannskind*; Rosegger's *Waldheimat*; Schiller's *Der Neffe als Onkel*, *Der Geisterseher*, *Wilhelm Tell*, *Die Jungfrau von Orleans*, *Das Lied von der Glocke*, *Balladen*; Scheffel's *Der Trompeter von Sakkingen*; Uhland's poems; and Wildenbruch's *Das edle Blut*.

GREEK

- A 1 *Greek Grammar*.
- 2 *Greek Composition*. Translation into Greek of sentences based upon Xenophon's *Anabasis*, Books I and II.
- B Xenophon, *Anabasis*, Books I–IV.
- C Homer, *Iliad*, Books I–III (omitting II, 494–end), and the Homeric constructions, forms, and prosody.
- G *Translation at Sight*. Prose of no greater difficulty than Xenophon's *Anabasis*.

HISTORY

- A** Ancient History comprising Greek History to the death of Alexander, and Roman to the death of Constantine. Oman's, Botsford's, and Myers' Histories of Greece, and Botsford's and Myers' Histories of Rome are recommended. The related geography is also included.

Ancient History, as defined by the College Entrance Examination Board, extending to 814 A. D., will be accepted as an equivalent.

- B** Mediæval and Modern History, from the death of Charlemagne to the present time. As text-books West's *Modern History* and Harding's *Essentials of Mediæval and Modern History* are recommended. Collateral reading and historical geography should form a part of the work in this subject.

The requirement for History *B*, as outlined by the College Entrance Examination Board, will be accepted.

- C** English History, as defined by the College Entrance Examination Board. Walker's *Essentials in English History*, Cheyney's *Short History of England*, and Andrews' *History of England* are recommended.

- D** American History, as defined by the College Entrance Examination Board. Hart's *Essentials in American History*, Adams and Trent's *History of the United States*, Channing's *Students' History of the United States*, and McLaughlin's *History of the American Nation* are recommended.

LATIN

The following requirements in Latin are in accordance with the recommendations made by the Commission on College Entrance Requirements in Latin, October, 1909.

I AMOUNT AND RANGE OF THE READING REQUIRED

(1) The Latin reading, without regard to the prescription of particular authors and works, shall be not less *in amount* than Cæsar, *Gallie War*, I-IV; Cicero, the orations against Catiline, for the Manilian Law, and for Archias; Vergil, *Aeneid*, I-VI.

(2) The amount of reading specified above shall be selected by the schools from the following authors and works: Cæsar (*Gallie War and Civil War*) and Nepos (*Lives*); Cicero (orations, letters, and *De Senectute*) and Sallust (*Catiline* and *Jugurthine War*); Vergil (*Bucolics*, *Georgics*, and *Aeneid*) and Ovid (*Metamorphoses*, *Fasti*, and *Tristia*).

II SCOPE OF THE EXAMINATIONS

(1) *Translation at Sight.* Candidates will be examined in translation at sight of both prose and verse. In vocabulary, constructions, and range of ideas, the passages set will be suited to the preparation secured by the reading indicated above.

(2) *Prescribed Reading.* Candidates will be examined also upon the following prescribed reading: Cicero, orations for the Manilian Law and for Archias, and Vergil, *Aeneid*, I, II, and either IV or VI, at the option of the candidate, with questions on subject-matter, literary and historical allusions, and prosody. Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

(3) *Grammar and Composition.* The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose.

SUBJECTS FOR EXAMINATION

- 1 GRAMMAR. The examination will presuppose the reading of the required amount of prose (see I, 1 and 2), including the prose works prescribed (see II, 2).
- 2 ELEMENTARY COMPOSITION. The examination will presuppose the reading of the required amount of prose (see I, 1 and 2), including the prose works prescribed (see II, 2).
- 4 CICERO (orations for the Manilian Law and for Archias) and SIGHT TRANSLATION OF PROSE.
- 5 VERGIL (*Aeneid*, I, II, and either IV or VI, at the option of the candidate) and SIGHT TRANSLATION OF POETRY.

MATHEMATICS

- A ELEMENTARY ALGEBRA; ALGEBRA TO QUADRATICS AND BEYOND.
- A1 ALGEBRA TO QUADRATICS.
The four fundamental operations for rational algebraic expressions.
Factoring, determination of highest common factor and lowest common multiple by factoring.
Fractions, including complex fractions, and ratio and proportion.

Linear equations, both numerical and literal, containing one or more unknown quantities.

Problems depending on linear equations.

Radicals, including the extraction of the square root of polynomials and of numbers.

Exponents, including the fractional and the negative.

A2 **QUADRATICS AND BEYOND.**

Quadratic equations, both numerical and literal.

Simple cases of equations with one or more unknown quantities that can be solved by the methods of linear or quadratic equations.

Problems depending on quadratic equations.

The binomial theorem for positive integral exponents.

The formulas for the n th term and the sum of the terms of arithmetical and geometrical progressions, with applications.

It is assumed that pupils will be required throughout the course to solve numerous problems which involve putting questions into equations. Some of these problems should be chosen from mensuration, from physics, and from commercial life. The use of graphical methods and illustrations, particularly in connection with the solution of equations, is also expected.

B **ADVANCED ALGEBRA.**

Permutations and combinations, limited to simple cases.

Complex numbers, with graphical representations of sums and differences.

Determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations.

Numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes's rule of signs and Horner's method, but not Sturm's functions or multiple roots.

C **PLANE GEOMETRY.**

The usual theorems and constructions of good text-books,* including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle.

* The examination questions in Plane Geometry and Solid Geometry will be limited to propositions contained in the syllabus issued by the National Committee of Fifteen appointed by the American Federation of Teachers of the Mathematical and Natural Sciences and the National Education Association. The Report of the Committee may be obtained gratis upon application to the Commissioner of Education, Department of the Interior, Washington, D. C.

The solution of numerous original exercises, including loci problems.

Applications to the mensuration of lines and plane surfaces.

D SOLID GEOMETRY.

The usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurement of prisms, cylinders, and cones; the sphere and the spherical triangle.

The solution of numerous original exercises, including loci problems.

Applications to the mensuration of surfaces and solids.

F PLANE TRIGONOMETRY.

Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles.

Proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas.

Solution of trigonometric equations of a simple character.

Theory and use of logarithms (without the introduction of work involving infinite series).

The solution of right and oblique triangles and practical applications.

Mathematics *B*, *D*, and *F* above together comprise approximately the college course, *Mathematics 1-2*.

PHYSICS

A course of study dealing with the elementary facts and principles of physics and with the applications of physical laws to the experiences of everyday life. The course of instruction should include:

i. The study of a standard text-book, or equivalent work by lectures; this study should be illustrated by qualitative lecture-room experiments and should be accompanied by practice in the solution of numerical problems.

ii. Individual quantitative laboratory work by the pupil, consisting of at least 30 experiments well distributed through the various divisions of the subject, and similar in character to those

found in the list suggested by the College Entrance Examination Board. This work should require at least 30 double periods of the school program.

It is expected that the course will occupy in lectures, recitations, and laboratory work, at least five hours per week for an entire year.

ASSIGNMENT OF UNITS

In the terms of the scale of values adopted by the National Conference Committee on Standards of Colleges and Secondary Schools, where the unit represents one year's work in a secondary school, with four or five periods per week, the admission subjects listed above have weights assigned as follows:

Biology	1 unit
Botany	1 "
Chemistry	1 "
English 1	1½ units
English 2	1½ "
French A	2 "
French B	1 unit
German A	2 units
German B	1 unit
Greek A	1 "
Greek B	1 "
Greek C	1 "
History A	1 "
History B	1 "
History C	1 "
History D	1 "
History E	1 "
Latin 1	1 "
Latin 2	1 "
Latin 4	1 "
Latin 5	1 "
Mathematics A1	1 "
*Mathematics A2	1 "
Mathematics B	½ "
Mathematics C	1 "
Mathematics D	½ "
Mathematics F	½ "

* Mathematics A2 has a value of ½ unit if studied only one-half year and offered by certificate.

Physics	1 unit
Spanish A	2 units
Spanish B	1 unit
Zoölogy	1 "

ARRANGEMENT OF EXAMINATIONS FOR ADMISSION

Examinations for admission are held twice each year, in June and in September.

In June the admission examinations of the college are those of the College Entrance Examination Board, of which Williams College is a member. An application for the privilege of taking these examinations must be made to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y., from whom all necessary information regarding the June examinations can be obtained. These examinations are held annually in June in Williamstown, and at many other places throughout the country.

COLLEGE ENTRANCE EXAMINATION BOARD

Examinations, June 16-21, 1919

In June, 1919, there will be separate blank forms for the "application for examination" and "certificate of recommendation." The former should be addressed to the College Entrance Examination Board, 431 West 117th Street, New York, N. Y., the latter to the Registrar of Williams College. Both forms may be obtained from the Secretary of the College Entrance Examination Board upon request by mail.

Provided that the application reach the College Entrance Examination Board not later than the date specified below, the examination fee will be \$6.00 if the candidate is to be examined in the United States, \$20.00 if the candidate is to be examined outside of the United States. The fee should be remitted by postal order, express order, or draft on New York to the College Entrance Examination Board.

Applications and fees of candidates who wish to be examined outside of the United States must reach the secretary of the Board at least six weeks in advance of the examinations, that is, on or before May 5, 1919.

Applications and fees of candidates who wish to be examined at points in the United States west of the Mississippi River must be received at least four weeks in advance of the examinations, that is, on or before May 19, 1919.

Applications and fees of candidates who wish to be examined at points in the United States east of or on the Mississippi River must be received at least three weeks in advance of the examinations, that is, on or before May 26, 1919.

When the candidate has failed to obtain the required blank form of application for examination, the usual examination fee will be accepted if the fee arrive not later than the specified date accompanied by a memorandum containing the name and address of the candidate, the examination center at which he wishes to present himself, and a list of all subjects in which he may have occasion to take the Board's examinations.

Applications received later than the dates named will be accepted only upon payment of \$6.00 in addition to the usual fee.

A list of the places at which the examinations are to be held by the Board in June, 1919, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

The marks given by the Board to the papers submitted will be accepted by the college on the same terms as the results of the examinations conducted by the college in September. Candidates for admission to Williams College should forward the results of their examinations, as soon as they are received from the Board, to the Registrar, Williams College, Williamstown, Mass.

The custom of sending examination papers from the college in June to preparatory schools for the use of candidates desiring to take the Williams College examinations there is not employed.

In September the admission examinations are given only by the college and do not include the subjects, Biology, Botany, Chemistry, History *E*, Physics, and Zoölogy. They will be held for the next college year in rooms 11 and 15, Hopkins Hall, and in room 5, Griffin Hall on the Friday, Saturday, Monday, Tuesday, and Wednesday before the beginning of the first semester, September 12-17, 1919, as follows:

FRIDAY, SEPT. 12

8 A. M.—*French *A*

2 P. M.—*German *A*

*Spanish *A*

SATURDAY, SEPT. 13

8 A. M.—†French *B*

2 P. M.—†German *B*]

†Spanish *B*

* The examination at the college in September includes an oral test in pronunciation.

† Candidates for admission are required to gain credit in French *A*, German *A*, or Spanish *A* before trying French *B*, German *B*, or Spanish *B* respectively in September.—See footnote, pp. 28, 29.

MONDAY, SEPT. 15

8 A. M.—English 1 and 2

2 P. M.—Greek A, B, C, and G

Mathematics B, D, and F

TUESDAY, SEPT. 16

8 A. M.—Latin 4 and 5

2 P. M.—Mathematics A and C

WEDNESDAY, SEPT. 17

8 A. M.—History A, B, C, and D

2 P. M.—Latin 1 and 2

Examinations in Biology, Botany, Chemistry, History E, Physics, and Zoölogy are offered in June only.

It is desired that candidates for admission to Williams College by examination take only the examinations offered by the College Entrance Examination Board in June and by the college in September. Official statements showing that candidates have passed admission examinations at another college or university may be accepted in case the candidate decides to transfer his application for admission from such other college or university to Williams College. But the examinations of the September in which the candidate seeks admission may not be taken elsewhere than at Williams College.

The passing mark, for both preliminary and final admission credit, is fifty in all admission subjects.

COMPREHENSIVE EXAMINATIONS

The comprehensive examinations given in June by the College Entrance Examination Board will be accepted for what they cover in Chemistry, English, French, German, Greek, Latin, Mathematics, and Physics. No comprehensive examinations are offered by the college in September.

PRELIMINARY ADMISSION EXAMINATIONS

Preliminary examinations in any of the requirements for admission may be taken a year or more in advance; but, in accordance with the rules of the College Entrance Examination Board,

the candidates for such examinations in June should submit in advance, from the principals of their schools, certificates specifying that their teachers consider them prepared in the subjects elected; *while candidates for preliminary examination in September must submit such certificates of preparation and also satisfactory evidence that they have made a thorough review during the summer.* Blank forms for use in submitting evidence of fitness for preliminary examinations in September may be obtained from the Registrar. Such a form, properly filled out, should be submitted by every preliminary candidate not later than one week before the beginning of the September examinations.

The examination will in all cases cover the whole of each subject offered by the candidate; for example, Greek *B*, Latin *4*, or Mathematics *C* may not be divided between the preliminary and the final examinations.

In order to prevent an interruption to studies that are to be continued in college, candidates are advised to reserve the following subjects for the final examinations: English *2*, Greek *C*, Latin *4* or *5*, and Mathematics *A2* or *C* (or Mathematics *B*, *D*, and *F*, if the admission group is IV or V).

The times and places of the preliminary examinations, as well as the questions submitted and the mark required for passing, are the same as for the regular final examinations.

ADMISSION BY CERTIFICATE

Under certain conditions specified below, certificates made out on prescribed forms and signed and submitted by the principals of approved preparatory schools are accepted in place of examinations in the various admission subjects. Certificates will, however, not be accepted for French *A* or *B*, German *A* or *B*, Spanish *A* or *B*, or Mathematics *B*, *D*, or *F*, *when offered for college credit*, or for the anticipation of any course of study offered in college.

■ No certificate in Mathematics *A* will be accepted for full credit unless accompanied by a statement that at least fifty regular recitation exercises have been devoted to Mathematics *B* or

Mathematics *F* or to a review of Mathematics *A* during the last preparatory school year.

The certificates of the schools approved by the New England College Entrance Certificate Board are accepted, in accordance with the regulations of the college and subject to the rules of the Board, for admission to Williams College. Certificates are not accepted from any schools in New England which lack the approval of that Board. Principals of schools in New England who desire the certificate privilege should address the Secretary of the Board, Dean Frank W. Nicolson, M.A., Wesleyan University, Middletown, Conn. Applications must be received by the Secretary before April 1st in order to be regularly approved for the next college year.

Application for the certificate privilege, or for renewal of the privilege, for schools outside New England should be made by the principal on a blank provided for the purpose by the Registrar.

These applications will ordinarily be granted if the school has at least one candidate already nearly prepared for admission to Williams College, and if the Faculty of the college has such information concerning the work of the school as seems to it to warrant. In general, a school that has recently sent to the college by examination properly trained students is considered entitled, on application, to receive the certificate privilege and to retain it as long as there is no radical change in the efficiency of the school; but any school will be dropped from the approved list whenever, for a period of five years, it has sent no students to the college; a school thus dropped may apply for renewal of the privilege whenever it has a candidate nearly ready for admission.

The certificate privilege is not granted to private tutors, and it is not to be used for any work done with private tutors, but only for work done regularly in the school whose principal signs the certificate.

The certificate privilege is revocable in all cases where, in the opinion of the Faculty of the college, it is not properly used.

Certificates must be made out on blank forms furnished by the Registrar, and in accordance with the instructions contained

therein. These certificates must contain an explicit statement of the work done by the candidate and the time devoted to it. It is expected that the certificate will include at least two-thirds of the total number of units represented by the subjects in the admission group in which the candidate proposes to enter. If the time devoted to a given subject seems inadequate, the certificate may be rejected for the subject in which such deficiency appears, though it may remain valid for other subjects. In such cases an examination upon the subjects in which the deficiency occurs will be required. For slight deficiencies conditions may be imposed.

A student who has failed to pass the admission examinations in September at this or any other college will not be admitted by certificate unless he has had, since such failure, at least a year of study in the school issuing the certificate.

Freshmen who have entered by certificate and have subsequently been dismissed for failure to matriculate may re-enter with the next class on such terms as the Committee on Admissions may prescribe.

When a year or more has passed between the completion of the work for which the certificate vouches and the time of admission to college, satisfactory evidence that the candidate has kept up his studies in the interval is required.

Certificates must be signed by the principal of the school (or some officer duly qualified to act in his stead) and are to be sent to the Registrar. They should be submitted as soon as possible after the completion of the school year in June.

Blank certificates will be sent to the principal of any approved school on request, but they are not sent to other persons.

The diplomas "with credit,"—and marks as high as seventy-five per cent. in individual subjects,—gained at the examinations of the Board of Regents of the State of New York, are accepted for what they cover in all admission subjects prescribed by Williams College.

All correspondence in matters of admission should be addressed to the Registrar.

ANTICIPATION OF COLLEGE COURSES

I *Subjects in the Admission Groups*

Any college course included in the admission groups of pages 28 and 29 of this catalogue will be counted towards a degree, if offered in addition to the subjects required in the chosen admission group. The examinations in such additional subjects are the regular examinations for admission and are to be taken at the appointed times in June and September.

The college courses which may be anticipated thus by passing the corresponding admission examinations of the College Entrance Examination Board in June or at the college in September are the following:—*French 1-2, French 3-4, German 1-2, German 3-4, Mathematics 1-2, Spanish 1-2, and Spanish 3-4.*

II *Subjects not in the Admission Groups*

Any student may be allowed, by special vote of the Faculty, to anticipate by examination a course of study not included among those mentioned in the above paragraph, if he gives evidence of having had satisfactory instruction in the subject in some school or college. In such anticipatory examinations, a grade as high as B is required.

GRADUATION IN THREE YEARS

A student who is able to anticipate at admission, in accordance with the above rules, two college courses, may, by taking the requisite number of extra courses, complete the requirements for graduation in three years; but the Faculty will decline to permit a student to undertake this unless his general scholarship is of high order.

ADMISSION TO ADVANCED STANDING

Students who come from other colleges and who bring certificates of honorable dismissal may, on proof of their qualifications, be admitted to a corresponding standing in this college.

All correspondence in matters of admission to college should be addressed to the Registrar.

CURRICULUM

GENERAL DESCRIPTION

The curriculum of Williams College provides, in the first place, for the continuation of the principal subjects offered at admission by prescribing in the Freshman year the study of Latin, English, Mathematics, and the other language of the admission group in which the student enters, together with Elementary French or German. In the second place, by organizing the courses of the last three years in eleven Major Groups arranged in three Divisions, the curriculum secures the concentration of part of the student's work in one well-defined field and the distribution of another part among different subjects. A Major Group consists in general of a Sophomore introductory course, three prescribed courses in Junior year, and two advanced year-courses (or their equivalent in semester-courses) in the Senior year. The rest of the student's work is elective, subject to the requirement that in Sophomore year he shall take at least one course in each Division, and, after Sophomore year, at least one year-course from each of the two Divisions in which his Major Group is not placed.

Any student of very high scholarship may, with the written approval of the professors concerned, petition the Faculty for greater freedom of election of courses in the Junior and Senior years than is afforded by the arrangement of the curriculum. Such petitions will be referred to the Advisory Committee for consideration and report to the Faculty, and will be decided with a view to the establishment in due time of a system of honors courses.

The Exhibit of Divisions and Major Groups is given on pages 55-56. All elections are subject to the prerequisites published on pages 57-92.

FRESHMAN YEAR

In the Freshman year each student must take Latin, English, Mathematics, and two of the three languages, Greek, French, and German. If a student has anticipated any required course of the Freshman year (see p. 54), he may substitute therefor any Sophomore course for which he has the proper prerequisite.

SOPHOMORE YEAR

The student must take four courses, at least one in each Division, from those open to Sophomores. One of these shall serve as the introductory course of the Major Group which is to be selected at the end of the Sophomore year.

JUNIOR YEAR

Each student must take the three courses of the Major Group that he has selected. He must also elect two other courses. In either the Junior year or the Senior year, at least one year-course (or its equivalent in semester-courses) must be taken in each of the two Divisions other than that in which the Major Group is placed.

SENIOR YEAR

Each student must complete his Major Group by taking two year-courses or their equivalent in semester-courses from those comprised in the Group. He must also elect at least two other year-courses or their equivalent, completing, if he has not already done so, the requirement of one year-course, or its equivalent, after Sophomore year in each of the two Divisions other than that in which the Major Group is placed.

GRADES

The grade system of marking used is defined as follows:

There shall be five grades, indicated thus: A, "excellent"; B, "good"; C, "fair"; D, "passable"; E, "failure."

The interpretation of the several grade names, "excellent," "good," "failure," etc., rests wholly with the judgment of the individual instructor.

COMPLETION OF COURSES

A course will be considered satisfactorily completed for any semester when the student has obtained a grade as high as D based on both the daily work (which shall include all oral or written exercises prior to the semi-annual examination) and the semi-annual examination. A student failing to obtain a grade as high as D must, if the course is required, repeat it the following year, or, in case of French 1-2, French 3-4, German 1-2, German 3-4, or Mathematics 1-2, pass the corresponding admission examinations in June or September with a grade as high as D.

GRADUATION

The number of semester-hours required for graduation is 124 (62 year-hours); but every student, in order to be graduated, must have attained a grade above D in at least one-half the number of hours required for graduation; and all courses regularly taken in the Senior year must be passed, even though they may not be necessary for completing the number of hours indicated above.

BACHELOR OF ARTS

The Degree of Bachelor of Arts is conferred by vote of the Trustees at the annual commencement upon students who have completed the requirements as to courses, hours, and grades to the satisfaction of the Faculty (see pp. 51-52), have paid to the Treasurer all college dues and other college charges, and have returned all books belonging to the library; but the degree may be forfeited by misconduct at any time previous to the close of the commencement exercises.

GROUPS OF HOURS

ARRANGED ACCORDING TO TIME:

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
8:00	C,e	C,i	c	C,i	c	C,i
9:00	D,d	D,k	d	D,k	d	D,k
10:00	a	A,h	A,a	A,h	A,a	h
11:00	B,b	B,i	b	B,i	b	B,i
1:30	E,e	E	e	E	E,e	
2:30	F,f	F	f	F	F,f	
3:30	G,g	G	g	G	G,g	

ARRANGED ACCORDING TO LETTERS:

Group A	Tu. W. Th. F. 10:00-11:00	Group c	M. W. F. 8:00-9:00
Group B	M. Tu. Th. S. 11:00-12:00	Group d	M. W. F. 9:00-10:00
Group C	M. Tu. Th. S. 8:00-9:00	Group e	M. W. F. 1:30-2:30
Group D	M. Tu. Th. S. 9:00-10:00	Group f	M. W. F. 2:30-3:30
Group E	M. Tu. Th. F. 1:30-2:30	Group g	M. W. F. 3:30-4:30
Group F	M. Tu. Th. F. 2:30-3:30	Group h	Tu. Th. S. 10:00-11:00
Group G	M. Tu. Th. F. 3:30-4:30	Group i	Tu. Th. S. 11:00-12:00
Group a	M. W. F. 10:00-11:00	Group j	Tu. Th. S. 8:00-9:00
Group b	M. W. F. 11:00-12:00	Group k	Tu. Th. S. 9:00-10:00

The groups of no two small letters conflict, and the groups of no two large letters conflict.
The following conflicts of group letters are to be noted:

Group A with Groups a and h
Group B with Groups b and i
Group C with Groups c and j
Group D with Groups d and k

Group E with Group e
Group F with Group f
Group G with Group g

NOTE:—Between the Thanksgiving recess and the Spring recess, the exercises will be held regularly one-half hour later than the above schedule indicates.

EXHIBIT OF FRESHMAN STUDIES

The following exhibit of studies indicates the courses of instruction that are offered to Freshmen. The studies of the Freshman year are prescribed, except that there is an option between French and German for students in Admission Group I.

The amounts of French and German which students entering by the various admission groups must have completed before graduation are as follows: Admission Group I, French 1-2, or German 1-2; Admission Group II, French 1-2, 3-4, and 5-6 and German 1-2; Admission Group III, French 1-2 and German 1-2, 3-4, and 5-6; Admission Group IV, French 1-2 and 3-4 and German 1-2; Admission Group V, French 1-2 and German 1-2 and 3-4.

The admission groups are arranged according to the different terms of admission stated on pp. 28, 29. The unenclosed figures refer to the courses of instruction as announced by the departments in the catalogue and the figures in parenthesis indicate the number of exercises per week in each course.

WILLIAMS COLLEGE

FRESHMAN YEAR—REQUIRED COURSES

ADMISSION GROUP	ADMISSION GROUP	ADMISSION GROUP	ADMISSION GROUP	ADMISSION GROUP
I	II	III	IV	V
{ French 1-2 or German 1-2 (3) Greek 1-2 (4) Latin 1-2 (3) Mathematics 1-2 (4) Rhetoric 1-2 (2)	French 5-6 (4) German 1-2 (3) Latin 1-2 (3) Mathematics 1-2 (4) Rhetoric 1-2 (2)	French 1-2 (3) German 5-6 (4) Latin 1-2 (3) Mathematics 1-2 (4) Rhetoric 1-2 (2)	French 3-4 (3) German 1-2 (3) Latin 1-2 (3) Mathematics 3-4 (4) Rhetoric 1-2 (2)	French 1-2 (3) German 3-4 (3) Latin 1-2 (3) Mathematics 3-4 (4) Rhetoric 1-2 (2)
16	16	16	15	15
Hygiene and Phys- ical Training Public Speaking	Hygiene and Phys- ical Training Public Speaking	Hygiene and Phys- ical Training Public Speaking	Hygiene and Phys- ical Training Public Speaking	Hygiene and Phys- ical Training Public Speaking

EXHIBIT OF DIVISIONS AND GROUPS

Odd numbers refer to the first semester, even numbers to the second semester. Year-courses have their two semester numerals joined by a hyphen.

DIVISIONS	MAJOR GROUPS	FRESHMAN COURSES	SOPHOMORE COURSES	JUNIOR GROUPS	SENIOR ELECTIVES
I	GREEK	{ Greek 1-2	Greek 3-4	a. Greek 5-6 b. Latin 3-4 c. Greek 11-12 History 12	Greek 7 Greek 8 Greek 9 Greek 10 Latin 5-6 Latin 7 Latin 8
	LATIN	{ Latin 1-2	Latin 3-4	a. Latin 5-6 b. Greek 3-4 (Greek 21-22) c. Greek 11-12 History 12	Latin 7 Latin 8 Greek 9-6 Greek 10
	FRENCH	{ French*	French*	a. French* b. Italian 1-2 or Spanish 1-2 c. History 1-2 (History 5-6)	French* Italian 1-2 Italian 3-4 Spanish 1-2 Spanish 3-4
	GERMAN	{ German*	German*	a. German* b. Literature 9-10 c. History 1-2 (History 5-6)	German* German*

* The modern language courses of Freshman year in the French and German groups will be determined by the admission record of the student. The modern language courses after Freshman year will follow in sequence. See announcements of the departments of German and Romance Languages.

II	ENGLISH	Rhetoric 1-3	Rhetoric 2- Literature 3	a. Literature 3-4 b. Literature 5-6 c. Rhetoric 5-6	Literature 14 Literature 8 Literature 9-10 Literature 11	Literature 12 Literature 13 Rhetoric 7
	HISTORY	History 1-2		a. History 2-4 b. Economic 1-3 c. Government 1-3	History 5-6 History 7 History 8 History 10 Greek 11- History 13 Economics 3 Government 7 Economics 4 Government 9	Economics 6 Economics 8 Government 3 Government 4 Government 5 Government 6 Government 7 Government 8 Government 9
	PHILOSOPHY			a. Philosophy 1-3 b. Religion 1-2 c. Art 1-3	Philosophy 7 Philosophy 8	Art 3 Art 4
	SPECIAL SUBJECT	Oratory	Rhetoric 2- Literature 2	Oratory 1-3		
III	MATHEMATICS	Mathematics 1-2	Mathematics 3-4	a. Mathematics 5-6 b. Mathematics 7-8 c. Physics 1-2	Mathematics 9 Mathematics 10 Physics 3-4	Physics 5-6 Physics 7 Physics 8
	PHYSICS	Physics 1-2		a. Physics 3-4 b. Mathematics 3-4 c. Chemistry 1-3	Physics 5-6 Physics 7 Physics 8 Mathematics 5-6 Mathematics 7-8 Mathematics 9 Mathematics 10	Chemistry 3-4 Chemistry 5 Chemistry 6 Chemistry 7 Chemistry 8 Chemistry 9 Chemistry 10
	CHEMISTRY			a. Chemistry 3-4 b. Physics 1-3 c. Geology 1-3	Chemistry 5 Chemistry 6 Chemistry 7 Chemistry 8 Chemistry 10 Physics 3-4	Physics 5-6 Physics 7 Physics 8 Physics 9 Geology 3 Geology 4
	BIOLOGY			a. Biology 2-4 b. Biology 5-6 c. Geology 1-3	Biology 7-8 Biology 9 Physiology 1 Physiology 2	Geology 3 Geology 4
	SPECIAL SUBJECT	Astronomy	Physics 1-2	Astronomy 1-2	Astronomy 3	Astronomy 4

† History 1-2 is to be taken instead of Art 1-3 unless the former has already been completed.

COURSES OF INSTRUCTION

DIVISION I

GREEK

Assistant Professor CLARK and Assistant Professor GALBRAITH.

*GREEK 1-2. *Selections from Herodotus*. Attention is given to a review of Greek forms and syntax, with reference to Goodwin's *Greek Grammar*.

Lysias. Special attention is given to the political and social allusions which abound in the orations of Lysias.

New Testament Greek. The gospel of *Mark* and parts of the other gospels.

Homer. The *Phæacian Episode of the Odyssey*. Some of the principal Homeric questions are discussed. The instructor gives to the class several readings from portions of the poem not prescribed for the daily work.

Required course for Freshmen in Admission Group I.

Four hours a week through the year.

Assistant Professor GALBRAITH.

[GREEK 3-4. *Plato, Xenophon, and Greek Drama*.

Greek 3. Plato and Xenophon. Plato's *Apology* and *Crito* and selections from Xenophon's *Memorabilia* are read by the class. There is some discussion of the earlier Greek philosophy and of the philosophy of Plato.

The first semester.

†*Greek 4. Greek Drama. Aristophanes, Sophocles, and Euripides*.

The first part of the work in the drama is devoted to Greek comedy; the *Clouds* of Aristophanes and selections from the *Birds* and the *Frogs* are read. Later the *Medea* of Euripides and the *Antigone* of Sophocles are read by the class, chiefly from the literary point of view. Attention is given to the influ-

* For convenience, the first semester of *Greek 1-2* may be called *Greek 1*, the second semester, *Greek 2*, etc. But, in all such cases, the work of the two semesters together constitutes an integral, indivisible year-course.

† Because of the demobilisation of the Students Army Training Corps many of the courses marked "omitted in 1918-1919" will be given from January to June.

ence of the Greek drama on later literature and to comparisons with the modern stage.

The second semester.

Sophomore elective course; prerequisite, *Greek 1-2*.

Four hours a week through the year.

Omitted in 1918-1919.]

[GREEK 5-6. *Demosthenes, Homer, and Lyric Poetry*.

Greek 5. Demosthenes. It is planned to read the following orations of Demosthenes:—*Olynthiacs* I, III, *Philippics* I, II, III, *On the Peace*, *On the Chersonese*, and as much of the oration *On the Crown* as circumstances permit.

The literary and historical aspects of the orations are studied with some care.

The first semester.

Greek 6. Homer and the Lyric Poets. Considerable portions of the *Iliad* are read, the aim being to gain an acquaintance with the poem as a whole. The development of Greek poetry up to the fifth century is traced in a study of the more important *lyric fragments*.

The second semester.

Junior elective course; prerequisite, *Greek 3-4*.

Three hours a week through the year.

Omitted in 1918-1919.]

[GREEK 7. *Thucydides and Plato*. The account of the Sicilian expedition in Books VI and VII of Thucydides is read, together with some other portions of his history. Some parts of the *Republic* of Plato are read.

Senior elective course; prerequisite, *Greek 5-6*.

Three hours a week during the first semester.

Omitted in 1918-1919.]

[GREEK 8. *Aeschylus and Sophocles*. The *Prometheus* of Aeschylus and the *Oedipus Rex* of Sophocles are read.

Theocritus. The course ends with the reading of the best of the *Idyls* of Theocritus.

Senior elective course; prerequisite, *Greek 5-6*.

Three hours a week during the second semester.

Omitted in 1918-1919.]

[GREEK ARCHEOLOGY. To students in *Greek 7* and *Greek 8* there is offered an additional exercise weekly in the reading of Greek inscriptions and the study of Greek vase-painting, sculpture, coins, etc.

One hour a week through the year.

Omitted in 1918-1919.]

[GREEK 9. *Greek Literature*. Some of the masterpieces of Greek literature are read, in translation, both in the classroom and as assigned reading. The instructor gives a brief account of the lives of the authors whose works are read, and traces the origin and development of the various forms of literature. No knowledge of Greek is required.

Senior elective course; prerequisite, *Greek 3-4* or *Latin 5-6*.

Three hours a week during the first semester.

Omitted in 1918-1919.]

[GREEK 10. *Life of the Ancient Greeks*. Described and illustrated by the aid of literature and of the monuments. Informal lectures are given by the instructor, while members of the course report regularly the results of reading and investigation assigned to them. No knowledge of Greek is required.

Senior elective course; prerequisite, *Greek 3-4* or *Latin 5-6*.

Three hours a week during the second semester.

Omitted in 1918-1919.]

GREEK 11-HISTORY 12. *Greek 11* and *History 12* constitute a Senior year course. See *History 12*.

Greek 11. Greek History. The social, political, and military history of the Greek world, from the origins of the cities to the Roman conquest. Greek democracies, especially at Athens, Syracuse, and Tarentum; Alexander, and the Hellenistic kingdoms; the federal unions; and the republic of Rhodes. Attention is given to the social and political theory of the Greeks.

Reading, lectures, quizzes, and written work.

The required reading in this course is in English only, but consultation of the Greek sources is encouraged.

Special instruction is offered, if desired, to prospective teachers, or to any students wishing to attempt some original investigation, but the course aims primarily to trace for the general student the progress of Hellenic civilization, with emphasis upon its abiding influences on later times.

Senior elective course; prerequisite, *History 3-4*; or, for students majoring in Greek or Latin, *Greek 3-4* or *Latin 3-4*.

Three hours a week during the first semester.

Assistant Professor CLARK.

GREEK 21-22. *Elementary Greek*. An introductory course beginning with the elements of the language and leading up to the reading of simple prose.

Junior elective course.

Three hours a week through the year.

Assistant Professor GALBRAITH.

LATIN

Professor WILD and Professor WETMORE.

LATIN 1-2. *Livy*. Selections from Livy are read. The chief aim is to develop the preparatory training of the student into power to read Latin with appreciation. There is frequent practice in sight work. Assignments are given for collateral reading in the history of the Punic Wars.

Selections from Latin Poets. The work of the second semester is devoted entirely to selections from the Latin Poets.

Mackail's *Latin Literature* is used throughout the year.

Freshman required course.

Three hours a week through the year.

Professor WETMORE.

LATIN 3-4. *Latin Comedy, Private Life of the Romans, Tacitus, and Horace*.

Latin 3. Latin Comedy. The primary aim in this part of the course is to trace the development of Latin Comedy, and to study its spirit as shown in the plays of Plautus and Terence. The *Captivi* and the *Trinummus* of Plautus, and the *Adelphoe* of Terence are read carefully, and other plays are read either at sight or as translated by the instructor.

Private Life of the Romans. One exercise a week is devoted to the study of Roman life and customs, with illustrations by means of lantern slides and other material.

The first semester.

Professor WILD and Professor WETMORE.

Latin 4. Tacitus and Horace. The reading work of the second semester is divided between the works of Tacitus and the *Odes* of Horace. The reading in Tacitus includes the *Agricola* and the first twenty-seven chapters of the *Germania*. If possible, several of Horace's *Satires* are read during this part of the course.

In connection with the *Odes* of Horace some attention is paid to the English lyric, involving the preparation of careful translations from the Latin and a comparison of the better known English versions. The student is encouraged to commit to memory some of the famous passages from the *Odes*.

The second semester.

Professor WETMORE.

Sophomore elective course; prerequisite, *Latin 1-2*.

Four hours a week through the year.

LATIN 5-6. *Vergil, Catullus, and Rapid Reading*.

Latin 5. Vergil. The object of this part of the course is to give the student a thorough knowledge and a high appreciation of the works of Vergil.

To this end the *Eclogues* and the first six books of the *Aeneid* are rapidly reviewed, while a series of lectures is being given on the life and times of Vergil, his motives, sources, art, and influence on the later literature, as well as on his so-called minor poems included in the *Appendix Vergiliana* and on the mediæval conception of Vergil.

About two-thirds of the semester is devoted to reading the *Georgics* and the last six books of the *Aeneid*. The technical parts of the *Georgics* are entirely omitted, only the poetical episodes being read. The last six books of the *Aeneid* are read, partly by the entire class in regular assignments, and partly by individual assignments and reading at sight.

Early in the course a large number of topics for original investigation and criticism in connection with the student's daily reading are suggested. Every man is expected to select one of these topics and prepare a paper to be read before the class.

The first semester.

Professor WETMORE.

Latin 6. Catullus and Rapid Reading of Prose Authors. The greater part of Catullus is read. Passages from any source tending to throw light on the interpretation of the poet are read at sight.

The work of the second half of the semester consists of the rapid reading of the *Jugurtha* of Sallust and the *Letters* of Pliny. The aim is to cultivate an appreciation of Latin literature and facility in grasping the thought immediately through the language.

The second semester.

Professor WETMORE.

Junior elective course; prerequisite, *Latin 3-4*.

Three hours a week through the year.

[LATIN 7 and LATIN 8. It is the aim in these courses to give a general survey of Latin literature from the earliest period down to the third century. The plan involves (1) a reading of selected portions of the most important authors, especially those not included in the other courses, and (2) informal lectures upon the rise and development of the various forms of literature, with such notice of the authors and their works as shall help to assign them their place in literature.

Latin 7. A Brief Survey of Latin Literature from the Earliest Period to the End of the Augustan Period.

Senior elective course; prerequisite, *Latin 5-6*.

Three hours a week during the first semester.

Latin 8. A Brief Survey of Latin Literature from the End of the Augustan Period to the Third Century.

Senior elective course; prerequisite, *Latin 5-6*.

Three hours a week during the second semester.

Omitted in 1918-1919.]

[LATIN COMPOSITION. To those who intend to become teachers of Latin there is open in connection with *Latin 7* and *Latin 8* an additional course of one hour a week in advanced Latin composition.

Omitted in 1918-1919.

Professor WILD.]

LATIN 20. *The Letters of Cicero and of Pliny.* This is mainly a literary course in which the most interesting and important letters of the two authors are read. There is constant work at sight and reading of Latin without translation. It is also the aim of the course to give the student a clear idea of Cicero and of Pliny as men and of their relations to their times.

Limited Freshman course, open to those who have credit in *Mathematics D* and *F*.

Three hours a week during the second semester.

Professor WETMORE.

For *Roman History*, see *History 12*.

ROMANCE LANGUAGES

Professor TAYLOR, Assistant Professor RICE, Dr. VILES, and Mr. HEALY.

FRENCH

[FRENCH 1-2. *Elementary French.* This course includes the study of grammar and composition, and the reading of modern French. The class is arranged in small divisions so that each student may receive individual attention and adequate training in pronunciation and the use of conversational French. Special attention is given to dictation.

Optional with *German 1-2* for Freshmen in Admission Group I who enter without a modern language. Required of students in Admission Groups III and V who do not offer *French A* for admission.

Three hours a week through the year.

Omitted in 1918-1919.

Professor TAYLOR and Dr. VILES.]

[FRENCH 3-4. *Intermediate French*. This course continues all the work of *French 1-2*. Standard authors are read, and the use of the spoken language is increased.

Prerequisite, *French 1-2*, or *Admission French A*.

Three hours a week through the year.

Omitted in 1918-1919.]

FRENCH 5-6. *Advanced French*. A rapid survey of the whole of French literature, using *Histoire illustrée de la Littérature Française* by Abry, Audic et Crouzet, Didier, Paris. Standard prose will be read. Throughout the year composition, dictation, and practice in spoken French. This course is open to those who have completed *French 3-4*, and is required of Freshmen entering in Admission Group II.

Prerequisite, *French 3-4*, or *Admission French B*.

Four hours a week through the year.

Assistant Professor RICE*.

[FRENCH 7-8. *The French Drama*. A study of the French Drama from Corneille to the contemporary period, with special emphasis upon the works of the nineteenth century. The course includes reading, lectures, composition, and oral practice. The course is conducted in French.

Prerequisite, *French 5-6*.

Four hours a week through the year.

Omitted in 1918-1919.]

[FRENCH 9-10. *The French Novel*. A study of the French Novel in the nineteenth century preceded by a short survey of the early development of fiction and the history of its evolution during the seventeenth and eighteenth centuries. The course is conducted in French. Outside reading is assigned.

Prerequisite, *French 7-8*.

Three hours a week through the year.

Omitted in 1918-1919.]

[FRENCH 11-12. *French Literature* of the sixteenth and seventeenth centuries, preceded by a survey of the literature of the Middle Ages. Lectures, readings, and reports.

Prerequisite, *French 9-10*.

Three hours a week through the year.

Omitted in 1918-1919.

Professor TAYLOR.]

* Assisted, in 1918-1919, by Professor Karl E. Weston.

[FRENCH 13-14. *French Literature* of the eighteenth century. A study of the literature of France during the eighteenth century. Montesquieu, Voltaire, Diderot and the *Encyclopédie*, Rousseau and his followers, the inter-relations of English and French literatures during this period, the *Salons*, literature of the Revolution, etc., will furnish some of the material of the course. Lectures, readings, and reports.

Prerequisite, *French 9-10*.

Three hours a week throughout the year.

Omitted in 1918-1919.

Professor TAYLOR.]

ITALIAN

[ITALIAN 1-2. *Elementary grammar and reading* of classical and modern Italian. This course includes a practical training in Italian grammar and composition, and the reading of standard works of literature.

Junior elective course; prerequisite, *French 3-4*.

Three hours a week through the year.

Omitted in 1918-1919.

Assistant Professor RICE.]

[ITALIAN 3-4. This course continues the work of *Italian 1-2*. Different typical forms of Italian literature are read and discussed, with emphasis on the modern period. Practice will be given in conversation and in composition.

Senior elective course; prerequisite, *Italian 1-2*.

Three hours a week through the year.

Omitted in 1918-1919.

Assistant Professor RICE.]

SPANISH

[SPANISH 1-2. *Elementary grammar and reading* of classical and modern Spanish. This course includes a practical training in Spanish grammar and composition, and the reading of standard works of literature.

Junior elective course; prerequisite, *French 3-4*.

Three hours a week through the year.

Omitted in 1918-1919.

Assistant Professor RICE.]

[SPANISH 3-4. This course continues the work of *Spanish 1-2*. Different typical forms of Spanish literature are read and discussed, with emphasis on

the modern period. Practice will be given in conversation and in composition.

Senior elective course; prerequisite, *Spanish 1-2*.

Three hours a week through the year.

Omitted in 1918-1919.

Assistant Professor RICH.]

GERMAN

Assistant Professor LONG, Assistant Professor JOHNSON, and
Assistant Professor HEWITT.

GERMAN 1-2. *Elementary German*. This is a course in grammar, composition, and the reading of narrative prose and some lyrics, also memorizing of poetry. Oral use of the language is introduced gradually, and special attention is paid to pronunciation in the small sections into which the class is divided.

Optional with *French 1-2* for Freshmen in Admission Group I who enter without a modern language. Required of students in Admission Groups II and IV who do not offer *German A* for entrance, and elective for all others.

Three hours a week through the year.

Assistant Professor JOHNSON and Assistant Professor HEWITT.

[GERMAN 3-4. *Intermediate German*. This course is intended to give the student a fair reading knowledge of the language. Modern novels are read during the first semester, and Schiller's *Wilhelm Tell*, Lessing's *Minna von Barnhelm* or Goethe's *Hermann und Dorothea* during the second semester. Thomas's *Grammar* is used for reference, and the work in composition is continued.

Prerequisite, *German 1-2* or *Admission German A*.

Three hours a week through the year.

Omitted in 1918-1919.

Assistant Professor JOHNSON and Assistant Professor HEWITT.]

GERMAN 5-6. *Advanced German*. This course is devoted to the reading and interpretation of selections from the works of Lessing, Goethe, and Schiller. It is conducted as far as practicable in German, and includes composition, dictation, collateral reading, and lectures.

Prerequisite, *German 3-4* or *Admission German B*; students admitted with *German BC** take *German 6* only.

Four hours a week through the year.

Assistant Professor LONG and Assistant Professor HEWITT.

[GERMAN 7-8. *Nineteenth Century Literature*. In this course representative dramas and novels of the nineteenth century are read and discussed. It

*See requirements of College Entrance Examination Board.

deals with a study of the various literary movements of the period and with such authors as Hoffmann, Kleist, Koerner, Grillparzer, Hauff, Hebbel, Ludwig, Keller, Wildenbruch, Hauptmann, and Sudermann. It is conducted almost entirely in German and includes also composition, collateral reading, and lectures in German.

Prerequisite, *German 5-6*.

Four hours a week through the year.

Omitted in 1918-1919.

Assistant Professor JOHNSON.]

[GERMAN 9-10. *Goethe*. This course includes the reading and interpretation of representative works of Goethe, together with a study of his life and character. In the first semester selections from his autobiographical writings, poems, and dramas are read and discussed. The work of the second semester is devoted to the study of *Faust*, Part I, and selections from Part II. The course is conducted mainly in German, and includes lectures, collateral reading, and reports.

Prerequisite, *German 7-8*.

Three hours a week through the year.

Omitted in 1918-1919.

Assistant Professor LONG.]

[GERMAN 11-12. *Luther to the Classical Period*. The study of German civilization and culture through the first centuries of modern German history is pursued in this course by reading selections from the literature of this time, also some of Freytag's historical novels and essays as well as other literature illustrative of German life during this epoch. The course is conducted mainly in German. Lectures, readings, and reports.

Prerequisite, *German 9-10*.

Three hours a week through the year.

Omitted in 1918-1919.

Assistant Professor LONG.]

[GERMAN 13-14. *Literature of the Classical Period*. A study of German literature, beginning with Lessing and extending through the first decade of the nineteenth century. Reading and discussion of works selected from representative writers. Considerable attention is given to literary movements and to the social and political conditions of the period. The course is conducted mainly in German, and includes lectures, collateral reading, and reports.

Prerequisite, *German 9-10*.

Three hours a week through the year.

Omitted in 1918-1919.

Assistant Professor LONG.]

DIVISION II

ENGLISH

Professor MAXCY, Professor REES, Assistant Professor ALLEN, Assistant Professor DUTTON, Assistant Professor LICKLIDER, and Assistant Professor GRISCOM.

RHETORIC

RHETORIC 1-2. *Rhetoric and Composition.*

Rhetoric 1. A course in the essentials of correct expression, based on systematic drill in the construction of sentence and paragraph. An extensive study of prose selections affords a basis for applying text-book principles and for frequent written work. All exercises and themes are subjected to detailed criticism.

Rhetoric 2. A continuation of *Rhetoric 1*, with the purpose of developing in the student the ability to understand logical discourse and to apply this knowledge to his own written work. A study of essays affords material for frequent written exercises in illustration of the principles developed in the class-room. As in *Rhetoric 1*, all themes are criticized in detail.

Freshman required course.

Two hours a week through the year.

Professor REES, Assistant Professor ALLEN, Assistant Professor DUTTON, Assistant Professor LICKLIDER, and Assistant Professor GRISCOM.

RHETORIC 3. *Narrative Composition.* In this course the elements of narration are discussed in turn: setting, character, plot; also the various forms of narrative composition: paragraph items, the short-story, biography, history, etc. In connection with these topics the class studies a number of literary masterpieces. During the past year *The Autobiography of Benvenuto Cellini*, Prescott's *Conquest of Peru*, Hardy's *Far from the Madding Crowd*, and fifty specimens of the short-story were among the selections assigned. The class is also required to present original exercises in narrative composition: at least two short-stories of the length usually found in magazines, and many brief exercises, such as character sketches, biographic summaries, studies in setting, character, etc.

Four hours a week during the first semester.

Rhetoric 3 constitutes the first half of the Sophomore year-course, *Rhetoric 3-Literature 2*. See *Literature 2*.

Assistant Professor DUTTON and Assistant Professor LICKLIDER.

[**RHETORIC 5-6. *Argumentation.*** The purpose of this course is to train the student in logical and systematic methods of thought. The main divisions of the course are: (a) the correct phrasing of propositions; (b) the analysis of propositions; (c) the study of evidence; (d) inductive and deductive methods of reasoning; (e) generalization and analysis; (f) causal relations; (g) fallacies; (h) the methods of refutation; (i) the construction of briefs; (j) the rhetorical qualities of the forensic; (k) persuasion.

In connection with the study of argumentative theory, each student is trained in the practice of argumentative composition through the writing of extended briefs, forensics, and various argumentative themes and exercises. During the second semester the members of the class are required to take part in debate. As in *Rhetoric 1-2*, the work of each student is subjected to extended criticism.

Junior elective course; prerequisite, *Rhetoric 3-Literature 2*.

Three hours a week through the year.

Omitted in 1918-1919.

Professor MAXCY.]

[**RHETORIC 7. *Criticism.*** This course is devoted to the study of literary criticism. The discussions are supplemented by extensive readings in the literature of criticism and by essays on critical topics chosen in connection with the readings.

Senior elective course; prerequisite, *Literature 3-4* or *Literature 5-6* or *Rhetoric 5-6*.

Three hours a week during the first semester.

Omitted in 1918-1919.

Assistant Professor ALLEN.]

[**RHETORIC 20. *The Essay.*** The class reads a large number of essays, makes a special study of a representative essay writer, and writes fortnightly essays.

Limited Freshman course, open to those who have credit in *Mathematics D* and *F*.

Three hours a week during the second semester.

Omitted in 1918-1919.

Assistant Professor ALLEN.]

LITERATURE

RHETORIC 3-LITERATURE 2. *Rhetoric 3* and *Literature 2* constitute a Sophomore year-course. See *Rhetoric 3*.

Literature 2. *General English Literature.* This course is twofold, embracing not only an historical survey of English literature from the earliest times to the end of the nineteenth century, but also a considerable amount of out-

* Because of the demobilisation of the Students Army Training Corps many of the courses marked "omitted in 1918-1919" will be given from January to June.

side reading, so arranged as to accompany the text-book and lectures. Frequent examinations are held. A thesis on some subject chosen by the student in consultation with the instructor is required. The work is arranged with a view to laying a broad foundation for the more advanced courses in English literature.

Four hours a week during the second semester.

Assistant Professor DUTTON and Assistant Professor LICKLIDER.

LITERATURE 3-4. *The Elizabethan Drama*. This course deals with the history of the English drama from the Miracle Plays to the closing of the theatres. During the second semester detailed study is made of the language and of the dramatic structure of certain of Shakspeare's plays. Boas's *Shakspeare and his Predecessors* is used as a general text-book.

Junior elective course; prerequisite, *Rhetoric 3-Literature 2*.

Three hours a week through the year.

Professor REES.

[LITERATURE 5-6. *English Literature from Milton to Scott*.

Literature 5. The Classical Period (1650-1784). Lectures are given on the history and interpretation of the literature of the period. Extensive reading, with a view to first-hand knowledge of the thought and temper of the chief authors, is required.

The first semester.

Professor REES.

Literature 6. The Age of Romanticism (1784-1832). A study of the important poets and writers of prose during this period, including Cowper, Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, Lamb, de Quincey, Austen, and Landor.

The second semester.

Assistant Professor LICKLIDER.

Junior elective course; prerequisite, *Rhetoric 3-Literature 2*.

Three hours a week through the year.

Omitted in 1918-1919.]

LITERATURE 8. *English Literature, Victorian Period (1832-1900)*. This course consists of interpretative lectures, class discussions based upon assigned reading, and individual investigation on the part of the students. It is intended to serve as an introduction to the more important aspects of Victorian literary achievement.

Senior elective course; prerequisite, *Literature 3-4* or *Literature 5-6*.

Three hours a week during the second semester.

Assistant Professor DUTTON.

Northern and Southern antagonism culminating in the Civil War. Throughout the year special attention is given to problems of international relations, foreign policies, war and peace, with a view to their bearing on present-day questions. The methods comprise lectures, parallel reading, reports on assigned topics, recitations, and written tests.

Junior elective course; prerequisite, *History 1-2*.

Assistant Professor BUFFINTON.

[*HISTORY 5-6. European History—Era of Revolution and Reconstruction (1740-1871)*. The work of the first semester begins with the accession of Frederick the Great (1740) and concludes with the fall of the Napoleonic Empire (1814). After a rapid survey of Europe in the age of Frederick, the main part of the semester is devoted to the study of the period of the French Revolution and the Napoleonic Empire. The course of the movement, its causes, and results, are studied in relation to all the principal states of Europe.

The work of the second semester begins with the reconstruction of Europe after the fall of Napoleon. First the period of reaction and that of the national revolutions of 1848 are studied. Special attention is then given to the constructive movements in Italy, Austria-Hungary, and Germany, concluding with the Franco-German War and the founding of the German Empire.

Junior elective course; prerequisite, *History 1-2*.

Three hours a week through the year.

Omitted in 1918-1919.

Professor GOODRICH.]

[*HISTORY 7. The United States since the Civil War (1865-1918)*. This course covers the history of the United States from the close of the Civil War to the present time, dealing with the Reconstruction period, the reorganization of parties, the rise of the currency and tariff questions, and the recent revival of social political controversy. Particular attention is given to the historical origins of the present American war policy and of the existing Pan-American and Asiatic situations.

Senior elective course; prerequisite, *History 3-4*.

Omitted in 1918-1919.

Professor SMITH.]

[*HISTORY 8. Recent European History (1871-1914)*. This course is a continuation of *History 5-6* and is a study of the political development of the European states from the Franco-German War to the present time. Special attention is given to the constitutional developments in France, Germany, Austria-Hungary, Russia, Turkey, and the Balkan states, concluding with a

study of the colonial expansion and the international relations of European states down to the summer of 1914.

Senior elective course; prerequisite, *History 5-6*.

Three hours a week during the second semester.

Omitted in 1918-1919.

Professor GOODRICH.]

HISTORY 10. *The British Empire in the Nineteenth Century (1815-1918).* This course covers the history of the British Empire since 1815 with special emphasis upon the development of popular government in Great Britain and the British colonies, the expansion of the British Empire in Asia and Africa, and the analysis of the principles governing British foreign policy with regard to European controversies, culminating in the present war.

Senior elective course; prerequisite, *History 3-4* or *History 5-6*.

Professor SMITH.

HISTORY 12. *Roman History during the Revolution and the Empire.* The economic, social, political, and military history of the Roman world from the age of the Gracchi to that of Theodosius.

Reading, lectures, quizzes, and written work. Consultation of the Latin sources is encouraged but not required.

Special instruction is offered, if desired, to prospective teachers, or to any students wishing to attempt some original investigation; but the course aims primarily, while not neglecting great personalities, to survey for the general student of history or of the classics the Roman foundations of European civilization.

Senior elective course; prerequisite, *Greek 11*.

Three hours a week during the second semester.

Greek 11 and *History 12* constitute a Senior year course. See *Greek 11*.

Assistant Professor CLARK.

ECONOMICS

Acting Professor McLAREN and Assistant Professor CLARK.

ECONOMICS 1-2. *General Economics.* This course is a study of the leading principles of economic science with some applications to modern industrial conditions. Study of text-books and of assigned collateral reading is the basis of the work. Discussion of this matter in class is supplemented by occasional lectures and by weekly written tests.

Junior elective course.

Three hours a week through the year.

Acting Professor McLAREN and Assistant Professor CLARK.

[ECONOMICS 3. *Economic History*. A study of the gradual development of the modern industrial world from the middle of the eighteenth to the end of the nineteenth century. Among the topics included are the great inventions and the industrial revolution, agrarian changes in the leading countries, the factory system and labor legislation, steam transportation, English free trade and the tariff histories of leading countries, the finances and economic bearings of wars of the period, and the recent developments of industrial organization and nations.

Assignments of reading on special topics.

Senior elective course; prerequisite, *Economics 1-2*, *Government 1-2*, or *History 3-4*.

Three hours a week during the first semester.

Omitted in 1918-1919.

Assistant Professor CLARK.]

ECONOMICS 4. *Corporation Finance*. Kinds of business associations; organization and legal management of corporations; kinds of stock and rights of stockholders; corporate bonds, notes, and mortgages; control of the issue of securities by the State; sale of stocks and bonds to stockholders and the public; prospectuses; promotion; intercorporate relations; financial management; readjustments and reorganizations.

Senior elective course; prerequisite, *Economics 1-2*.

Three hours a week during the second semester.

Acting Professor McLAREN.

ECONOMICS 5. *Banking and Foreign Exchange*. Nature and functions of credit; instruments of commercial credit; principles of commercial banking; relations between banks, and the Clearing House system; regulation of banking; Federal Reserve System; cooperative banking; agricultural credit; investment banking institutions; nature, methods, and instruments of foreign exchange; the rate of exchange and the flow of specie.

Senior elective course; prerequisite, *Economics 1-2*.

Three hours a week during the first semester.

Assistant Professor CLARK.

ECONOMICS 7. *Public Finance and Trusts*. A study, on the one hand, of the theories and methods of public finance, and of the results of public enterprise; and on the other, of public policy with respect to capitalistic combinations.

Senior elective course; prerequisite, *Economics 1-2*.

Three hours a week during the first semester.

Assistant Professor CLARK.

ECONOMICS 8. *Labor Questions and Labor Legislation.* A study of the modern labor movement in America and abroad, of the forms, aims, and character of unions, and of the questions, proposals, and legislation affecting the relations of employers and employed. Topics included will be immigration, unemployment, strikes and conciliation, "scientific management," systems of payment, compensation, insurance, welfare activities, housing laws, wages-boards, coöperation and other projects of social reform, socialist theories and party policies, and syndicalism.

Assigned reading in text-books, monographs, reports, and periodicals.

Economics 3 is recommended as desirable, though not essential, to precede this course.

Senior elective course; prerequisite, *Economics 1-2*.

Three hours a week during the second semester.

Assistant Professor CLARK.

In the courses Economics 4, 5, 6, and 8 a special subject is assigned each student for study and written report.

GOVERNMENT AND POLITICAL SCIENCE

President GARFIELD, Professor SMITH, Professor DOUGHTY, and Acting Professor McLAREN.

[*GOVERNMENT 1-2. *The Constitution and Government of the United States.* This course comprises a study of the United States constitution both in its principles and structure and in its actual operation. The first semester, *Government 1*, consists of an examination of the theories and principles of government upon which is based the constitution, as those theories and principles are presented in *The Federalist*, which work is used as a text-book in this course. The second semester, *Government 2*, is an elementary course in Constitutional Law based upon Hall's *Constitutional Law* as a text in connection with McClain's *Cases in Constitutional Law*. The methods of instruction consist of lectures and oral and written recitations.

Junior elective course; prerequisite, *History 1-2*.

Three hours a week through the year.

Omitted in 1918-1919.

Professor DOUGHTY.]

[*GOVERNMENT 3. *History of Primitive Institutions.* This course is a study of the structure of primitive societies, and the origins and development of legal and political institutions as found in the earlier Roman law, and the laws and political institutions of mediæval Europe. The work consists of oral and

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written recitations and lectures. Maine's *Ancient Law* and Jenks' *Law and Politics in the Middle Ages* are used as texts.

Senior elective course; prerequisite, *Government 1-2*.

Three hours a week during the first semester.

Omitted in 1918-1919.

Professor DOUGHTY.]

GOVERNMENT 4. *History of Primitive Institutions*, continued. This course is a continuation of *Government 3*, being confined, however, to the study of the nature and development of the early common law of England. The work consists of oral and written recitations and lectures. Kerr's edition of *Blackstone* is used as a text.

Senior elective course; prerequisite, *Government 3*.

Three hours a week during the second semester.

Professor DOUGHTY.

GOVERNMENT 5. *Jurisprudence*. This course is a study of the theory and structure of law, its sources and subject-matter. The work consists of oral and written recitations and lectures. Holland's *Elements of Jurisprudence* is used as a text.

Senior elective course; prerequisite, *Government 1-2*.

Three hours a week during the first semester.

Professor DOUGHTY.

GOVERNMENT 6. *Jurisprudence*. This is an advanced course in jurisprudence, and consists of a study of the processes of reasoning involved in the application of the general principles of the system, and the rules of any particular branch, to specific sets of facts. The work consists of lectures, classroom discussions, and written exercises. There are assignments of reading on special topics.

Senior elective course; prerequisite, *Government 5*.

Three hours a week during the second semester.

Professor DOUGHTY.

[GOVERNMENT 7. *Comparative Modern Government*. This course is devoted to a study of the governments of the leading countries with special attention to the methods of legislation and the location of political control. It is based on Ogg's *Governments of Europe* and Lowell's *Government of England and Government and Politics in Continental Europe* and is conducted by means of discussions, lectures, and the presentation of reports individually assigned to members of the class.

Senior elective course; prerequisite, *Government 1-2*.

Three hours a week during the first semester.

Omitted in 1918-1919.

Professor SMITH.]

GOVERNMENT 8. *Problems of American Government.* This course studies the practical working of the United States Federal government with particular reference to the difficulties and shortcomings complained of in current criticism and the proposed remedies of a governmental character. Beard's *Government and Politics* is used as the basis for work, and there is a considerable amount of assigned reading, as well as a special report involving investigation of some disputed point.

Senior elective course; prerequisite, *Government 1-2* and any one of the following courses, *Government 7*, *Government 9*, or *History 7*.

Three hours a week during the second semester.

Professor SMITH.

[GOVERNMENT 9. *Municipal Government.* A study of the structure and functions of city government in Europe and the United States. Discussions and weekly tests based upon assigned reading and lectures. (Required reading, 1917-1918, Munro's, *Government of European Cities*, *Government of American Cities*, and *Principles and Methods of Municipal Administration*.) In addition to the study of the general subject, the government of a particular city is assigned to each student for special examination. Method: individual conferences and a written report.

Senior elective course; prerequisite, *Government 1-2*.

Three hours a week during the first semester.

Omitted in 1918-1919.

Professor McLAREN.]

[GOVERNMENT 10. *International Law.* A study of the principles of international law and of the bases underlying modern treaty rights and obligations.

In addition to the reading of a text-book, students will be required to do a considerable amount of collateral reading, to study and digest important cases of international law, to prepare papers on assigned subjects, and to take part in class-room discussions.

Senior elective course; prerequisite, *Government 1-2*.

Three hours a week during the second semester.

Omitted in 1918-1919.]

PHILOSOPHY

Professor PRATT.

PHILOSOPHY 1-2. *Elementary Psychology and Ethics.* The first semester will be devoted to an introductory course in psychology, the aim of which will be to comprehend the essential facts of the mental life. The subject for the

second semester will be ethics, and the attempt will be made to discover the meaning and basis of duty by discussions, original papers, and reports.

Junior elective course.

Three hours a week through the year.

Professor PRATT.

[PHILOSOPHY 3. *Metaphysics*. The problems of idealism and realism, monism and pluralism will be studied in the light of contemporary philosophical literature.

Senior elective course; prerequisite, *Philosophy 1-2*.

Three hours a week during the first semester.

Omitted in 1918-1919.]

[PHILOSOPHY 4. *An Advanced Course in Ethics*. This course is a study of the application of ethical principles and ideals to present-day problems of social, economic, and industrial organizations.

Elective course; prerequisite, *Philosophy 1-2*.

Three hours a week during the second semester.

Omitted in 1918-1919.]

[PHILOSOPHY 5. *Social Psychology*. This course deals with the social life of men.

Elective course; prerequisite, *Philosophy 1-2*.

Three hours a week during the first semester.

Omitted in 1918-1919.]

[PHILOSOPHY 6. *A Course in Present-day Philosophy*, special prominence being given to the philosophy of William James and Henri Bergson.

Elective course; prerequisite, *Philosophy 1-2*.

Three hours a week during the second semester.

Omitted in 1918-1919.]

[PHILOSOPHY 7. *History of Ancient Philosophy*. The work of this course will be based upon a text-book supplemented by assigned reading from the leading philosophers of the period studied, and lectures on the more difficult questions, with occasional papers from the students and much informal discussion.

Senior elective course; prerequisite, *Philosophy 1-2*.

Three hours a week during the first semester.

Professor PRATT.]

[PHILOSOPHY 8. *History of Modern Philosophy.* This course will carry on into modern philosophy the historical study begun by the student in the preceding course, the same method being retained.

Senior elective course; prerequisite, *Philosophy 1-2.*

Three hours a week during the second semester.

Omitted in 1918-1919.

Professor PRATT.]

RELIGION

Professor MORTON and Professor PRATT.

[RELIGION 1-2. *History of Religion.*

Religion 1. History of Religion. The more important ideas and institutions of the religion of primitive peoples are first considered, after which the religions of India, Persia, Israel, Greece, Rome, and Islam are taken up in some detail. The instruction is by lectures with short quizzes, required reading from the *Sacred Books*, and reports on them. In addition to this, each student chooses some topic for independent investigation and writes a thesis upon it.

The first semester.

Professor PRATT.

Religion 2. History of Early Christianity. The course covers the first five centuries, during which the Christian religion developed its dominant characteristics and most generally accepted doctrines. The religions of the Greeks and the Romans are included in the general survey.

The second semester.

Junior elective course.

Three hours a week through the year.

Professor MORTON.]

Omitted in 1918-1919.

[RELIGION 3. *Medieval Religion and Philosophy.* Taylor's *Medieval Mind* is taken as the text-book, and Dante's works in English translation as illustrative material. Lectures, discussions, and preparation of special topics by members of the class.

Senior elective course; prerequisite, *Religion 1-2* or *Philosophy 1-2.*

Three hours a week through the first semester.

Omitted in 1918-1919.

Professor MORTON.]

[RELIGION 5. *Philosophy of Religion.* The philosophy of religion attempts to "explain through nature and man" religious beliefs and practices and to estimate their worth in so far as our present knowledge will allow. With the help of comparative religion it tries to distinguish the essentials.

Senior elective course; prerequisite, *Religion 1-2* or *Philosophy 1-2*.

Three hours a week during the first semester.

Professor MORTON.]

Omitted in 1918-1919.

RELIGION 6. *Philosophy of Theism.* The reasons are given for believing in a reality corresponding to the theistic assumptions and aspirations of religion. Objections and anti-theistic theories are considered. Text-books, lectures, and discussions. Special topics are assigned for more extended study.

Senior elective course; prerequisite, *Religion 5* or *Philosophy 1-2*.

Three hours a week during the second semester.

Professor MORTON.

HISTORY OF ART AND CIVILIZATION

Professor WESTON.

[ART 1-2. *History of Art from Antiquity through the Italian Renaissance.* Beginning with the civilization of Egypt, the architecture, painting, and sculpture of Antiquity, the Middle Ages, and the Italian Renaissance are studied as the expression of the civilization and ideals of each period. In addition to the three regular exercises of the course, each student is required to attend a weekly conference hour with the instructor. Illustrative matter is furnished by lantern views, photographs, and charts. Lectures and weekly assignments of reading.

Junior elective course; prerequisite, *History 1-2*.

Three hours a week through the year.

Fee, \$6.00.

Omitted in 1918-1919.]

[ART 3. *Art of the 17th and 18th Centuries.* This course traces the influence of the Italian Renaissance in Western Europe and continues the history and development of architecture, painting, and sculpture in the seventeenth and eighteenth centuries.

Senior elective course; prerequisite, *Art 1-2*.

Three hours a week during the first semester.

Fee, \$3.00.

Omitted in 1918-1919.]

ART 4. *Art of the 19th Century.* The aim of this course is to familiarize the student with each important school of art and to furnish a basis for independent judgment.

Senior elective course; prerequisite, *Art 1-2*.

Three hours a week during the second semester.

Fee, \$3.00.

PUBLIC SPEAKING AND ORATORY

Assistant Professor GRISCOM.

Public Speaking. This course aims (1) to emphasize some of the fundamental principles of oral expression and (2) to apply them to the speech of the individual. The class is divided into small sections, and extended drill is given each man. The choice of speakers for the prize contest in declamation is based on this work.

Freshman required course.

[ORATORY 1-2.]

Oratory 1. This course is intended to develop the delivery of the students. It includes (1) the practice of exercises for the development of the voice and body as expressive agents, and (2) practice in different forms of public speaking. The latter includes the rendering of original selections from memory and extempore speaking. A text-book is used.

Oratory 2. This is a continuation of *Oratory 1*. It offers advanced work in both technique and delivery. The structure and style of the oration are considered—also its different forms. Each student will be required to write at least three manuscripts of not less than eight hundred words each. A text-book is used.

Senior and Junior elective course.

Three hours a week throughout the year.

Omitted in 1918-1919.]

Extended drill is given to all speakers who compete in prize contests, and to those who are to appear on the commencement platform.

DIVISION III

 MATHEMATICS

Professor HARDY, Assistant Professor SHEPARD, Assistant Professor AGARD,
and Mr. BOTSFORD.

MATHEMATICS 1-2. *Solid Geometry, Algebra, Plane Trigonometry, and Surveying.*

Mathematics 1. Solid Geometry and Algebra.

Solid Geometry. Book VI and parts of Books VII and VIII of Wentworth's *New Plane and Solid Geometry*, together with original propositions and numerical exercises.

Advanced Algebra. Graphical methods, complex numbers, determinants, theory of equations, etc. Fite's *College Algebra* is used as a text-book.

The first semester.

Mathematics 2. Plane Trigonometry and Surveying.

Plane Trigonometry. Logarithms, the trigonometric functions, trigonometric analysis, solutions of right and oblique triangles, etc.

Field Work in Surveying. The practical use of instruments, including determination of heights, simple triangulation, measurement of areas, and leveling. This portion of the course is optional.

The second semester.

Freshman required course.

Four hours a week through the year.

Professor HARDY, Assistant Professor SHEPARD,
Assistant Professor AGARD, and Mr. BOTSFORD.

[***MATHEMATICS 3-4.** *Analytic Geometry and Calculus.* Graphs of algebraic and transcendental functions; analytic geometry of straight line, conic, and special curves; parametric equations; polar coördinates; differentiation with applications to geometry and mechanics; elementary integration; space geometry. Woods and Bailey's *Analytic Geometry and Calculus* is the text-book.

Sophomore elective course, required of Freshmen in Admission Groups IV and V; prerequisite, *Mathematics 1-2*.

Four hours a week through the year.

Omitted in 1918-1919.]

[**MATHEMATICS 5-6.** *Differential and Integral Calculus.* This course continues the work begun in *Mathematics 3-4*, and takes up more advanced methods

* Because of the demobilization of the Students Army Training Corps many of the courses marked "omitted in 1918-1919" will be given from January to June.

of integration; the determination of lengths, areas, volumes, mean values, centers of gravity, moments of inertia, approximate integration, etc. It also includes a discussion of Taylor's Series and an introduction to differential equations. The work is based on Woods and Bailey's *Analytic Geometry and Calculus*.

Junior elective course, open also to Sophomores in Admission Groups IV and V; prerequisite, *Mathematics 3-4*.

Three hours a week through the year.

Omitted in 1918-1919.]

[MATHEMATICS 7-8. *Descriptive Geometry*. Problems of the straight line and plane, curved surfaces, intersections and development of surfaces, simple warped surfaces. Elements of shades and shadows, and perspective. Anthony and Ashley's *Descriptive Geometry* and Fishleigh's *Problems* are used as text-books.

Junior elective course; prerequisite, *Mathematics 3-4*.

Three hours a week through the year.

Omitted in 1918-1919.]

[MATHEMATICS 9. *Differential Equations*. Methods of solution of the simpler forms of differential equations, applications to many problems of mathematical physics, etc. The course is based on Cohen's *Differential Equations*.

Senior elective course; prerequisite, *Mathematics 5-6*.

Three hours a week during the first semester.

Omitted in 1918-1919.]

MATHEMATICS 10. *Modern Methods in Analytic Geometry*. Abridged notation, line coördinates, harmonic division, projection, etc., with many applications. Lectures, with references to Salmon's *Conic Sections* and other works.

Senior elective course; prerequisite, *Mathematics 5-6* or *Mathematics 7-8*.

Three hours a week during the second semester.

Omitted in 1918-1919.]

[MATHEMATICS 20. *Theory of Equations, Spherical Trigonometry, etc.* Various text-books are used, and the work is adapted to the particular qualifications of the students admitted to the course.

Limited Freshman course, open to those who have anticipated *Mathematics F*.

Three hours a week during the second semester.

PHYSICS

Professor McELFRESH.

PHYSICS 1-2. *General Physics.* This course deals with the elementary facts and principles of physics and with the applications of physical laws to the experiences and phenomena of daily life. It includes elementary mechanics, sound, heat, light, magnetism, and electricity.

Sophomore elective course.

Four exercises a week through the year; these are lectures and recitations (three hours a week) and laboratory work (one two-hour exercise a week). For laboratory work the class is divided into small divisions; two-hour periods are assigned for this work to fit individual schedules.

Fee, \$5.00.

Professor McELFRESH.

[PHYSICS 3-4. *Experimental Physics.* Mechanics, sound, heat, light, magnetism, and electricity. This course consists of a series of physical measurements in the laboratory, accompanied by lectures. The lectures deal with the methods and principles involved in the laboratory work and also discuss certain physical problems that do not readily lend themselves to laboratory experimentation. In the laboratory work high-grade instruments of precision are employed, and the course is expected to give some skill in accurate measurement. The primary object of the laboratory work is to enable the student to familiarize himself with physical phenomena by direct personal observation.

Junior elective course; prerequisite, *Physics 1-2*.

Three exercises a week through the year; lectures and recitations (one hour a week), and laboratory work (two two-hour periods a week).

Fee \$10.00.

Omitted in 1918-1919.

Professor McELFRESH.]

[PHYSICS 5-6. *Electrical Measurements and Practical Applications of Electricity.* This course consists of lectures and laboratory work and includes a study of the magnetic properties of iron and steel, of direct and alternating current phenomena, and of their practical illustration in dynamo-electric machinery.

Senior elective course; prerequisite, *Physics 3-4*.

Three exercises a week through the year; lectures and recitations (two hours a week), and laboratory work (one two-hour period a week).

Fee, \$10.00.

Omitted in 1918-1919.

Professor McELFRESH.

[PHYSICS 7. *Mechanics*. The general principles of mechanics of solids; statics and kinetics of rigid bodies. Lectures and problems.

Senior elective course; prerequisite, *Mathematics 3-4* and *Physics 1-2*.

Three exercises a week during the first semester.

Omitted in 1918-1919.

Professor McELFRESH.

PHYSICS 8. *Mechanics*. A continuation of *Physics 7*. Elasticity of solids, liquids, and gases. Statics and kinetics of liquids and gases.

Senior elective course; prerequisite, *Physics 7*.

Three exercises a week during the second semester.

Professor McELFRESH.

CHEMISTRY

PROFESSOR BRAINERD MEARS, MR. TATLOCK, and MR. ADRIANCE.

CHEMISTRY 1-2. *General Chemistry and Qualitative Analysis*.

Chemistry 1. General Chemistry. The principles of chemistry are studied in connection with the non-metals and their compounds. This course is given by experimental lectures, supplemented by recitations and practical work in the laboratory.

Fee, \$3.00.

Four hours a week during the first semester.

Chemistry 2. Metallic Chemistry and Qualitative Analysis. A course of lectures is given on the occurrence, properties, and uses of the metals and their compounds.

Most of the time is devoted to qualitative analysis in the laboratory. This work includes the reactions of the principal bases and acids, their detection and separation. About 100 solutions and 100 solid substances, including about 50 minerals, are analyzed during the course. This course is a continuation of *Chemistry 1*.

Sophomore elective course.

Four periods a week, of two hours each, during the second semester.

Fee, \$10.00 and breakage.

Professor BRAINERD MEARS and MR. TATLOCK.

CHEMISTRY 1-BIOLOGY 2. *Chemistry 1* and *Biology 2* may be taken together as constituting a Sophomore year-course. See *Biology 2*.

[CHEMISTRY 3-4. *Organic Chemistry.*

Chemistry 3. Organic Chemistry. Lectures on the compounds of carbon, including the history of chemistry and its development to the present time. This course completes the work begun in *Chemistry 1* and continued in *Chemistry 2*.

Mr. TATLOCK.

Chemistry 4. Advanced Organic Chemistry. This course is a continuation of the work begun in *Chemistry 3*. The principles of organic chemistry are applied to the preparation and analysis of organic compounds in the laboratory with a discussion of the reactions involved. Cohen's book on organic preparations is used.

Junior elective course; prerequisite, *Chemistry 1-2*.

Three exercises a week, of two hours each, through the year.

Fee, \$10.00 and breakage.

Omitted in 1918-1919.

Professor BRAINERD MEARS and Mr. TATLOCK.]

[CHEMISTRY 5. *Quantitative Analysis.* This course embraces the quantitative determination and separation of the principal bases and acids. Both gravimetric and volumetric methods are employed.

Senior elective course; prerequisite, *Chemistry 3-4*.

Three exercises a week, of two hours each, during the first semester.

Fee, \$10.00 and breakage.

Omitted in 1918-1919.

Professor BRAINERD MEARS.]

CHEMISTRY 6. *Advanced Quantitative Analysis.* This course is a continuation of *Chemistry 5* and includes the analysis of minerals and various other products closely related to the industrial processes and to daily life.

Senior elective course; prerequisite, *Chemistry 5*.

Three exercises a week, of two hours each, during the second semester.

Fee, \$5.00 and breakage.

Professor BRAINERD MEARS.

[CHEMISTRY 7. *Advanced Inorganic Chemistry.* This course includes lectures, recitations, and reports upon the more important technical operations, together with the preparation of inorganic compounds and a discussion of the reactions and processes involved in their production.

Senior elective course; prerequisite, *Chemistry 3-4*.

Three exercises a week, of two hours each, during the first semester.

Fee, \$5.00 and breakage.

Omitted in 1918-1919,

Mr. TATLOCK.]

CHEMISTRY 8. *Physical Chemistry*. This course consists of lectures and recitations on the modern theories of physical chemistry together with experimental work in the laboratory.

Senior elective course; prerequisite, *Chemistry 3-4*.

Three exercises a week, of two hours each, during the second semester.

Fee, \$5.00 and breakage.

Mr. TATLOCK.

CHEMISTRY 10. *Physiological Chemistry*. The lectures in this course consist of a discussion of those chemical substances peculiar to animals, and of the facts of physiological chemistry.

The laboratory practice is designed to acquaint the student with the more important constituents of animal matter and their chemical behavior, particular attention being given to metabolism.

Senior elective course; prerequisite, *Chemistry 3-4*.

Three exercises a week, of two hours each, during the second semester.

Fee, \$5.00 and breakage.

Mr. ADRIANCE.

GEOLOGY AND MINERALOGY

Professor CLELAND.

[GEOLOGY 1-2. *General Geology*. The purpose of the course in general geology is to give the student such a knowledge of the principles of geology that he may be able to appreciate what he sees of the earth's surface and to understand what force or forces have produced the features of the landscape. A study is also made of the forces themselves, such, for example, as erosion, glaciers, volcanoes, and earthquakes. Some time is spent on the life of the past, in a description not only of the animals that lived in the various periods of the earth's history but also of the changes that took place in their structure and habits, and, as far as possible, of the causes that produced these changes.

Geology 1. During the first semester that portion of the subject included in (a) *Dynamical Geology*, which deals with the forces that have shaped, and are now shaping, the earth's surface, such as weathering, streams, glaciers, volcanoes, and earthquakes, is considered. (b) *Structural Geology*. In this division of the subject the structure of the earth's crust and the more important rocks and minerals of which it is composed are studied.

Excursions in the vicinity of Williamstown, as well as one or two to more distant points, are taken.

Geology 2. In the second semester the origin and occurrence of ores are first studied. This is followed by the major work of the semester, the study of evolutionary geology. The animals of the past, as shown by their fossil remains, are discussed particularly with regard to their bearing upon the theory of

evolution. The fossils in the collections and a number of casts, together with a large collection of lantern slides or restorations, are used in illustration.

Excursions in the vicinity of Williamstown, as well as one or two to more distant points, are taken.

Junior elective course; prerequisite, *Chemistry 1-2* or *Chemistry 1-Biology 2*.

Three hours a week through the year.

Omitted in 1918-1919.]

[**GEOLOGY 3. *Mineralogy.*** This course aims to give the student a knowledge of the commoner and economically valuable minerals and is a preparation for Economic Geology, *Geology 4*. The work consists of blow-pipe and chemical tests, as well as sight identification of minerals. A brief course in crystallography is included. The following mineral groups are studied: iron, manganese, nickel, cobalt, zinc, tin, titanium, lead, arsenic, antimony, molybdenum, copper, mercury, silver, gold, platinum, potassium, sodium, lithium, barium, strontium, calcium, magnesium, aluminum, boron, silica, and the silicates.

Senior elective course; prerequisite, *Geology 1-2*.

Six exercises a week during the first semester.

Laboratory fee, \$2.00.

Omitted in 1918-1919.]

GEOLOGY 4. *Economic Geology.* Beginning with a more detailed study of those subjects which are essential to the understanding of economic geology, the aim of the course is to afford the student a practical knowledge of the mineral products of the United States, such as coal, gypsum, salt, iron, lead, copper, and gold. Special attention is paid to the origin of the various deposits studied, with particular reference to the general principles governing the deposition and occurrence of each economic product discussed. Each student is required to present a typewritten report, as the result of his own observation, of some local mine, quarry, or other deposit of economic importance.

Senior elective course; prerequisite, *Geology 1-2*.

Three hours a week during the second semester.

BIOLOGY

Professor KELLOGG and an INSTRUCTOR.

BIOLOGY 2. *A Study of Living Matter and of Life.*

Lectures, written recitations, laboratory exercises.

Sophomore elective course; prerequisite, *Chemistry 1*.

Four hours a week during the second semester.

Fee, \$2.00.

Professor KELLOGG and an INSTRUCTOR.

Biology 2 is to be taken only as the second semester of the Sophomore year-course, *Chemistry 1-Biology 2*. See *Chemistry 1*.

[BIOLOGY 3-4. The year's work includes two subjects:

(a) *Zoology of the Invertebrata*. This part of the course extends from September to about the middle of March. Instruction is by means of lectures, recitations, and laboratory work. The structure and functions of several single-celled organisms are studied in the laboratory by means of the microscope. Among the many celled forms examined are sponges, fresh-water hydras, marine hydroids, the starfish, sea-urchins, worm, crayfish, grasshopper, and bivalves. The object of this work is chiefly to demonstrate the meanings of homologies and adaptations, and to afford an appreciation of the value of the data employed in inductions considered later in the course.

(b) *Theories of Biology*. The remainder of the year is given to a series of lectures, with recitations, on the general problems of biology. Laboratory work as in (a) is continued during this period.

The course considers the views of the early Transmutationists, of Lamarck, Erasmus Darwin, and others, and discusses the theory of natural selection of Darwin and Wallace. Attention is given to observations that tend to limit it as a universal explanation of the structural and functional peculiarities of organisms, and to more recent theories of evolution, inheritance, etc.

Junior elective course; prerequisite, *Chemistry 1-Biology 2*.

Three exercises a week, of two hours each, through the year.

Fee, \$5.00.

Omitted in 1918-1919.

Professor KELLOGG.]

[BIOLOGY 5-6. *Botany*.

The work of the year includes a study of the structure, life histories, and habits of the chief groups of plants, proceeding from the simplest to the most highly organized forms. This is followed by a course in plant physiology. Lectures, laboratory work, and occasional field excursions.

Junior elective course; prerequisite, *Chemistry 1-Biology 2*.

Three exercises a week, of two hours each, through the year.

Fee, \$5.00.

Omitted in 1918-1919.]

[BIOLOGY 7-8. A continuation of *Biology 3-4*.

(a) *Zoology of the Chordata*. As in *Zoology of the Invertebrata*, instruction is by means of lectures, recitations, and laboratory work. The fishes, amphibia, reptiles, birds, and mammals are studied comparatively by means of dissections in the laboratory.

(b) *Embryology*. The second semester is given to a study of the development of the starfish, worm, frog, chick, and mammal. In the first three forms

special attention is given to the early stages which follow fertilization. The work on the chick is outlined by a text-book, and followed in the laboratory by means of preparations, some of which are made by the student. It covers the development from the beginning of incubation to a stage in which the more important organs of the body have appeared. Mammalian development is compared with that of the chick, which it closely resembles, but is studied in the laboratory only by means of models and demonstration preparations.

Senior elective course; prerequisite, *Biology 3-4*.

Three exercises a week, of two hours each, through the year.

Fee, \$5.00.

Omitted in 1918-1919.

Professor KELLOGG.]

PHYSIOLOGY AND HYGIENE

Professor HOWARD and Dr. ADRIANCE.

HYGIENE. A series of lectures and recitations on the preservation of health. The lectures are designed to acquaint the student with the causes of disease, to point out the conditions of healthy living, and to inculcate those habits that promote physical efficiency. In several lectures attention is given to the problems of public health, especially those of safeguarding the food-supply and stamping out communicable disease.

Freshman required course.

One hour a week during the first semester.

Shortly after the opening of college in the fall, each new student is given a physical examination, the objects of which are to discover any existing defects of the heart, lungs, eyes, or muscular development, and to prescribe proper measures for their correction. Particular attention is given to the fitness of candidates for the athletic teams.

Dr. ADRIANCE.

[**PHYSIOLOGY 1.** An elementary study of the mechanism of life. Attention is centered chiefly on the structure and function of the human body, but the facts of general physiology are constantly employed to throw light on the special problems of human physiology. The physical and chemical features of the material basis of life are discussed first. Following this the physiology of the cell is briefly surveyed. The remainder and larger part of the course is a study of the income of material and energy to the body, comprising the subjects of alimentation, respiration, circulation, and metabolism. As far as time and the nature of the subject permit, the facts of physiology are demonstrated to the class, and the discussions are based as far as possible

on these observed phenomena. Class-room instruction is supplemented by reading of references in the manuals and periodicals of the science.

Senior elective course; prerequisite, *Biology 3-4*, or *Biology 5-6*.

Three hours a week during the first semester.

Omitted in 1918-1919.]

[PHYSIOLOGY 2. This course continues the study of physiology on lines similar to those followed in *Physiology 1*. The means by which the body is adapted to its environment is the main topic. This comprises a study of the neuro-muscular mechanism, the central nervous system, and the organs of sensation.

Senior elective course; prerequisite, *Physiology 1*.

Three hours a week during the second semester.

Omitted in 1918-1919.]

ASTRONOMY

Professor MILHAM.

[ASTRONOMY 1-2. This year course is divided into two parts, descriptive astronomy and an introduction to spherical and practical astronomy. In the descriptive astronomy a text-book, Young's *Manual of Astronomy*, is used as a basis of instruction. Numerous supplementary lectures are given, and the course is illustrated by charts and photographs. Such topics as the time service of the country, the origin of our calendar, the presence of an atmosphere in the case of the moon and the planets, and the cosmogony, are treated at length. During the second part of the course lectures on modern observatories, their location, equipment, and work, are given. Experimental demonstration and practical exercises in the observatory constitute a large part of the instruction during the last part of the second semester.

Junior elective course; prerequisite, *Physics 1-2*.

Three hours a week through the year.

Omitted in 1918-1919.]

[ASTRONOMY 3. *Theoretical Astronomy*. The mathematical side of astronomy is here considered. Elliptic motion, place in orbit, place in space, and the computation of orbits are treated.

Senior elective course; prerequisite, *Astronomy 1-2* and *Mathematics 3-4*.

Three hours a week during the first semester.

Omitted in 1918-1919.]

ASTRONOMY 4. *Spherical and Practical Astronomy*. This course consists of spherical trigonometry and its application to astronomy and the use of astronomical instruments in the determination of latitude, longitude, and time.

Senior elective course; prerequisite, *Astronomy 1-2* and *Mathematics 3-4*.

Three hours a week during the second semester.

PHYSICAL TRAINING

Mr. SEELEY.

[Exercises consisting of marching, calisthenics, and light gymnastics with wands, clubs, chest weights, and dumb-bells. The first six weeks are given up to outdoor work on Weston Field.

Freshman required course.

Three forty-five minute periods a week until the Spring recess.

Omitted in 1918-1919.]

In connection with this work a course of lectures on Hygiene is given in the first semester by Dr. Adriance. See the announcement of Physiology and Hygiene.

Elective work in the gymnasium is offered to other classes.

GENERAL INFORMATION

ORDER AND DISCIPLINE

It is the aim of the college to develop in the individual student the sense of personal responsibility for good order and a high standard of scholarship, and to secure, in the largest measure, his coöperation with the Faculty in the development of his own character. But if such coöperation is plainly impossible, a student may be dismissed from college at any time, even without previous warning.

HONOR SYSTEM

All college examinations are conducted under an honor system, established in 1896, by which the presence of proctors in the examination room is dispensed with and each student is placed on his honor. The following declaration is necessary to make any examination or other work written on paper in the classroom valid: *I have neither given nor received aid in this examination.*

All cases of suspected fraud are dealt with by a committee of ten students, including representatives from each class, who have the power to decide on the question of guilt and to recommend to the Faculty the penalty of dismissal from college in the case of a Senior, Junior, or Sophomore, and of suspension in the case of a Freshman.

REGISTRATION

All students are required to register in person on Tuesday, Wednesday, or the morning of Thursday at the beginning of the college year; again shortly before the beginning of the second semester; and a third time near the close of the second semester. For unexcused delay in registration, a fee of five dollars is imposed.

ATTENDANCE ON COLLEGE EXERCISES

Attendance on all individual appointments in the departments of English and Hygiene, on all semi-annual or final examinations, and on six-sevenths of the chapel services, is required of all students; attendance on nine-tenths of all other exercises is required of those Seniors, Juniors, and Sophomores, whose grades during the previous semester were as high as B in at least half their courses and as high as C in all their courses; and attendance on nineteen-twentieths of these exercises is required of all other students.

Each student is allowed to be absent from the Sunday morning service twice, and from the morning prayers and Sunday afternoon service combined eighteen times each semester.

The regulation of attendance on both the secular and the religious exercises is entrusted to the Dean. He is authorized to establish such rules for attendance on the religious exercises of the college as he may deem necessary, and to place on probation any student who fails to meet these requirements, or whose attendance on recitations and lectures is especially irregular. If a student does not comply with the conditions of the probation, the Dean may dismiss him from college; but any student thus dismissed has the right of an appeal through the Dean to the Committee on Administration.

RECORDS AND REPORTS

A report of scholarship is sent by the Registrar to every student's parents or guardian at the close of each semester, and at such other times as the Faculty may deem expedient. A permanent record of each student's scholarship is kept, and by this record his promotion and graduation are determined.

MASTER OF ARTS

The degree of Master of Arts is conferred upon Bachelors of Williams College of at least one year's standing who, having spent one year in residence at the college, pursuing two approved

courses of study as explained below, have passed a satisfactory examination in each subject, and have submitted a satisfactory thesis.

The degree is conferred upon Bachelors of Williams College who have spent one year in residence at any academic institution, pursuing two approved courses as below, provided that none of the work taken for the degree be used in fulfillment of the requirements for degrees elsewhere, and having been registered for the Master's degree for not less than one college year, have fulfilled the conditions as to examinations and thesis.

The degree is conferred upon Bachelors of Williams College who, not having been in residence, but having been registered as candidates for the degree not less than two years, have fulfilled the conditions as to courses, examinations, and thesis.

Undergraduates of Williams College who at the beginning of their Senior year require not more than eight semester hours to complete the requirements for the Bachelor's degree may apply some of the remaining courses allowed them toward the Master's degree, receiving the same one year after graduation, provided that they have satisfied the conditions as to courses, examinations, and thesis. Only advanced undergraduate courses will be accepted for the degree, and in no case shall these courses form the whole of either a major or a minor graduate course.

Undergraduates of Williams College who complete their work for the Bachelor's degree at the end of the first semester may continue in residence as candidates for the Master's degree, subject to the following restrictions: (a) Any undergraduate who has completed the requirements for graduation and who wishes to take an undergraduate course to be counted toward the Master's degree shall attend and complete this course in the manner prescribed for undergraduates, except that attendance on the last college exercise before and the first college exercise after holidays and recesses will not be required of him. (b) If he takes one, two, or three undergraduate courses, he shall pay to the College Treasurer the sum of twenty dollars a semester

for each course. If he takes more than three courses, he shall pay the tuition required of other undergraduates.

The candidates mentioned in the previous paragraph may receive the Master's degree one year after graduation, provided that they have satisfied the conditions as to courses, examinations, thesis, and fees.

The degree is conferred upon Bachelors of other colleges conferring the Bachelor's degree under conditions equivalent to those required at this college, provided that the approved courses are pursued in residence at Williams College under the specified conditions as to time, examinations, and thesis.

Each candidate must submit two courses of study, which together shall be equivalent to the work of a fifth college year. Of these courses, one, to be known as the major course, must be equivalent to at least twenty semester hours, and the other, to be known as the minor course, must be equivalent to at least ten semester hours.

Each candidate will outline his courses under the direction of the heads of the departments interested and the Committee on Graduate Students, who together shall be empowered to decide whether the candidate may pursue certain advanced undergraduate courses as part of the work leading to the degree.

Candidates for the Master's degree are required to pass their examinations with at least a B grade.

The thesis required of each candidate must treat a subject related to the major course. It must be submitted not later than May fifteenth of the year in which the candidate desires to be examined, and must meet the approval of the professor to whose department it is related and of the Committee on Graduate Students. A copy of the thesis, printed or typewritten on paper of the size generally used in a typewriter, must be deposited in the College Library.

Each candidate must file his registration with the Chairman of the Committee on Graduate Students not later than October fifth of the year in which he desires to enter on his work. The registration must be renewed not later than October fifth of

each year for which the applicant desires to be considered a candidate, and, in case of non-resident candidates, the renewal of the registration must be accompanied by a statement showing the progress that has been made during the year.

Candidates for the degree must pay to the Treasurer of the College twenty dollars at the time of the first registration, and five dollars at the time of the final examination. No further charge is made for the diploma.

The degree must be taken not later than three years after the first registration, unless the period be extended by special vote of the Committee on Graduate Students. The candidate must give notice of his readiness for the final examinations not later than May first of the year during which he expects to receive the degree. The examinations, however, may be taken earlier than the end of the final year of study, subject to the following restrictions: (a) The examination for the major course *in residence* may not be taken earlier than the Spring recess following the date of registration; and that for the minor course *in residence* not earlier than the end of the first semester following the date of registration. (b) The examination for the major course *in absentia* may not be taken earlier than the end of the first semester of the year following the date of registration; and that for the minor course *in absentia* not earlier than the Spring recess of the year of registration.

Candidates in residence who desire instruction will be charged forty dollars for each course, in addition to the prescribed fees for registration and examination. This will entitle them to one weekly period of instruction in each course. An additional charge may be made for the use of laboratory apparatus.

The college catalogue will contain the names of those candidates who take the required courses *in residence*, but not the names of those who pursue work *in absentia*.

Successful candidates for the degree are required to be present at the time when the degree is conferred, unless previously excused by the Board of Trustees.

Communications relative to the Master's degree should be ad-

dressed to Professor Monroe Nichols Wetmore, Chairman of the Committee on Graduate Students.

PUBLIC WORSHIP

Chapel exercises are held every week-day morning and Sunday evening in the Thompson Memorial Chapel, and all students are required to be present.

On every Sunday morning, a preaching service is held in the chapel at which the presence of all students not excused to attend elsewhere is required.

PREACHERS TO THE COLLEGE FOR THE YEAR

1917-1918

Rev. Harris E. Adriance	Englewood, N. J.
Ex-President Franklin Carter, LL.D.	Williamstown
Rev. Willis H. Butler	Boston
Rev. John H. Randall, D.D.	New York City
Rev. Henry S. Coffin, D.D.	New York City
Rev. Samuel V. V. Holmes, D.D.	Buffalo, N. Y.
President Ozora S. Davis, D.D.	Chicago Theological Seminary
Dean Charles R. Brown, D.D.	Yale School of Religion
Rev. Charles F. Carter	Hartford, Conn.
President W. Douglas Mackenzie, D.D.	Hartford Theological Seminary
Rev. John S. Zelig, D.D.	New York City
Mr. Robert E. Speer	New York City
President Clarence A. Barbour, D.D.	Rochester Theological Seminary
Rev. J. V. Moldenhawer	Albany, N. Y.
Dean Charles R. Brown, D.D.	Yale School of Religion
Rev. Charles G. Sewall	Albany, N. Y.
Rev. Raymond Calkins, D.D.	Cambridge
President Charles A. Richmond, LL.D.	Union College
Professor Albert P. Fitch, D.D.	Amherst College
Rev. Nehemiah Boynton, D.D.	Brooklyn, N. Y.
Rev. Elmer E. Count, D.D.	Bulgaria Mission, New York City
Rev. Willard L. Sperry	Boston
Rev. J. Douglas Adam, D.D.	Hartford Theological Seminary
Rev. John S. Zelig, D.D.	New York City
Professor John W. Platner, D.D.	Andover Theological Seminary
Rev. Charles H. Cutler, D.D.	Waban

Rev. Hugh Black, D.D.	Union Theological Seminary
Rev. Milton B. Pratt, D.D.	Utica, N. Y.
Professor Albert P. Fitch, D.D.	Amherst College
Rev. Harry P. Dewey, D.D.	Minneapolis, Minn.
Rev. F. Boyd Edwards	Orange, N. J.
Rev. Henry S. Bradley, D.D.	Worcester
Right Rev. Edwin H. Hughes, D.D.	Malden
Rev. Harry P. Dewey, D.D.	Minneapolis, Minn.

LIBRARY

The College Library contains ninety-one thousand volumes, exclusive of duplicates, and about twenty thousand pamphlets. The card catalogue covers the entire collection, bound and unbound. For the maintenance of the library nine thousand three hundred and thirty dollars was expended during the past year. The Mrs. Amos Lawrence, Jonathan Phillips, J. Ruthven Adriance, D. A. Jones, R. H. Pruyn, Class of 1878, Josiah William Wheeler, Stephen and Mary Stickney Memorial, John Savary, 1883 fund, and Elizabeth and Sarah Pattison funds represent a capital sum of about one hundred and sixty-seven thousand dollars, the income from which is increased by gifts, and by special appropriations of the Trustees.

Students have direct access to all books. They may draw three volumes at a time, to be retained, if desired, for two weeks, with the privilege of one renewal. Abundant facilities are afforded for reading, study, and writing during library hours.

The library is open every week-day during the entire year. From September to Thanksgiving, and from the Spring recess to Commencement, the hours are from 8 A. M. to 12 M., from 1 P. M. to 6 P. M., and from 7.30 P. M. to 10 P. M. Between Thanksgiving and the Spring recess the hours are from 8.30 A. M. to 12.30 P. M., 1.30 P. M. to 6 P. M., and from 7.30 P. M. to 10 P. M. On Sundays during the college year the library is open, for reading and reference only, from 2.30 P. M. to 5.25 P. M.

To coöperate with the instruction in particular subjects, selected books bearing on the semester's work are placed on reserve in the various branch libraries. Attendants are in charge

of the reading rooms in Griffin Hall where books on history, economics, and government are shelved, and in Goodrich Hall which contains material in modern and ancient languages and on philosophy and religion. Special libraries in the Thompson Laboratories contain books on biology, physiology, chemistry, physics, and astronomy; in Clark Hall on geology; and in Hopkins Hall on mathematics.

A comfortable reading room, well supplied with daily and weekly papers and other current literature, is maintained under the auspices of the Williams Christian Association in Jesup Hall. The Common Room in Currier Hall is likewise supplied with current literature.

In the reading rooms of Lawrence Hall is a valuable collection of paintings, bas-reliefs, Etruscan vases, and Peruvian pottery, the gift of the late Mrs. John W. Field, of Philadelphia.

LABORATORIES

The departments of Biology, Chemistry, and Physics are located in the three buildings presented to the college by the late F. F. Thompson, Esq., of New York, N. Y.

The Biological Laboratory contains three laboratories for the various courses offered, a general lecture room, a library and reading room where much of the current literature of biology is kept on file, also a room for illustrative collections, and an aquarium. The work of instruction and research commands the aid of suitable apparatus, such as microscopes, microtomes, ovens, baths, and other necessary appliances, together with a large series of charts, models, and illustrative collections. There is also a complete stereopticon outfit, with projection microscope and arc light.

The Chemical Laboratory is a modern fire proof building well supplied with the various appliances for instruction in chemistry. The building contains four large laboratories, five small laboratories adapted to special purposes, lecture and recitation rooms, and a reference library.

The Physical Laboratory contains a well-appointed lecture room, a recitation room, separate laboratories for the work of the different classes, a department library, and rooms especially arranged for advanced work in electricity, magnetism, light, and chemical physics. Power is furnished by a ten horse-power induction motor. The electrical equipment includes a five kilowatt dynamo, several smaller dynamos and motors, and standard instruments for measuring current-strength, voltage, resistance, capacity, etc. A storage battery of fifty cells furnishes current for the lecture room and laboratories.

OBSERVATORIES

The astronomical department of the college possesses two observatories for illustration and scientific investigation. The older was built by Professor Albert Hopkins in 1838, and contains an equatorial by Phelps of Troy, N. Y., with an object glass by Alvin Clark, Senior, which has an aperture of 7 inches. This instrument was constructed about 1852 and is interesting as an early example of Clark's optical work. The meridian room of the Hopkins Observatory contains a fine portable transit which can be used as a zenith telescope, together with two clocks and a chronograph. Another room contains the meteorological apparatus. Meteorological observations have been made regularly since 1816.

In another part of the town a plot, comprising five acres and a half, was purchased in 1881 for astronomical purposes. At present this enclosure contains the Field Memorial Observatory, an iron meridian house, built at the expense of the Hon. David Dudley Field, together with a small building for the accommodation of portable instruments. The main instrument of this observatory is a meridian circle by A. Repsold & Sons of Hamburg, with a telescope of 4.8 inches aperture.

In addition, the department of Astronomy is provided with a large number of portable instruments, among which are two telescopes for the simpler observations and three surveyor's

transits, one of them a Wanschaff universal with seven-inch limb, latitude level, and microscopes reading to 5" directly. There are also several instruments of reflection, including sextants, sailor's octants, and two prismatic circles, three chronometers, artificial horizons, and other small pieces of apparatus.

GEOLOGICAL MUSEUM

The second floor of Edward Clark Hall is used for the Geological Collections. The collections, though not large, have been carefully selected and arranged and contain many choice specimens of minerals, rocks, and fossils.

Of special interest are (1) the collection of precious and semi-precious cut stones donated largely by Mr. R. Clifford Black, 1900, which is being gradually enlarged by additional stones secured by purchase or gift; (2) the collection of 175 polished specimens (4 x 6 inches) of foreign and domestic marbles presented to the College by Mr. Francis E. Bowker, 1908; (3) polished sections of tree trunks of petrified wood from the petrified forest of Arizona; (4) the McGregor restorations of the skulls of Paleolithic Man; (5) restoration of dinosaurs, fishes, and other vertebrates; (6) the local collection of rocks and minerals; and (7) a relief map of the region about Williamstown on a scale of two inches to the mile.

The nucleus of the mineral collection was the Wilder Cabinet, which was purchased and presented to the college by Edward Clark, the donor of the building that bears his name. In the early days of the college Professor Ebenezer Emmons presented his collection of North Carolina fossils as well as some from New York State, and from this the present collection of fossils grew. Through the generosity of the late Mr. Morris K. Jesup, as well as by means of the annual appropriations, vertebrate and invertebrate fossils have been purchased; and this section of the Museum has been made more valuable for class-room as well as for exhibition purposes. Mr. T. Nelson Dale's donation of local rocks has made the collection of local rocks and minerals nearly complete.

A collection of modern shells, the gift of missionary alumni and others, is on exhibition.

Models illustrating mountain structure, folding, and faulting, relief maps, crystal models, and other devices for illustrating geological features, are either on exhibition or are available for those who are interested.

The museum is open to the public each week-day of the college year from 10 to 12 A. M. and from 2 to 4 P. M.

AUDITORIUM

Grace Hall, the gift of Hon. A. C. Chapin, of the Class of 1869, contains an auditorium seating about 1300 and is equipped with an organ of unusual size and quality. Here are held the Commencement exercises, organ recitals, concerts, and dramatic entertainments. A smaller hall in the building is used chiefly for debating purposes.

GYMNASIUM

The Lasell Gymnasium, erected and equipped at a cost of \$50,000, chiefly by the munificence of the widow of the Hon. Josiah Lasell, of the Class of 1844, and of his son, Josiah Manning Lasell, of the Class of 1886, furnishes abundant facilities for physical development. The apparatus is the outcome of the study and invention of the best teachers of gymnastics. Pulley weights of the best pattern, adjustable to varying strength, light Indian clubs, dumb-bells, both of wood and of iron, horizontal and parallel bars, rings, and apparatus for developing special muscles, are used under the immediate supervision of a competent instructor. An inclined padded running-track 229 feet in length, and a swimming pool 65 by 22 feet, are important features of the building. It is provided with hot and cold water, tub, sponge, and shower baths, and five hundred and fifty steel lockers. Soon after entering college each student is carefully examined and measured by the Director, in order that the exercise may be adapted to individual peculiarities, and a symmetrical

development secured. Gymnastic exercise is required of the Freshman class until the Spring recess.

FIELD SPORTS

The smaller athletic fields near the college buildings afford opportunity for practice in tennis and baseball, while Weston Field, and the tract known as the John M. Cole Field, afford opportunity for baseball, football, and track athletics. The golf links and tennis courts of the Taconic Club are open, on moderate terms, to student players.

COLLEGE INFIRMARY

Each student cared for at the Thompson Infirmary is charged two dollars a day. In case a physician is called in or a special nurse is needed, the expense is to be borne by the person requiring the same, and the Infirmary is to be reimbursed for all expense and at the rate of six dollars a week for the nurse's board. In case of contagious disease, nurses charge extra for services. Board bills are to be paid to the College Treasurer.

A medical staff has been appointed by the Trustees of the College, composed of the following physicians: Dr. Vanderpoel Adriance, Dr. Frederic H. Howard, Dr. Frank W. Olds.

A physician other than a member of the staff may attend a student at the Infirmary, provided a written request to that effect, designating the physician, is received by the Dean of the College from the parent or guardian of the student.

THOMPSON COURSE OF ENTERTAINMENTS

This course, which for many years was sustained by the liberality of the late F. F. Thompson, Esq., of New York, N. Y., provided concerts and other entertainments during the winter. Mrs. Thompson has generously offered to continue the course for the current year.

Last year the entertainments were:

1917

- Nov. 8. Ruth Draper, Monologues.
Nov. 28. Arthur Delroy, Lecture, "Psychic Wonders Exposed."
Dec. 13. H. Charles Woods, Lecture, "The Near East and the War."

1918

- Jan. 10. Arthur Hackett, Tenor, Recital.
Jan. 17. Elmer Ransom, Magician, and Al. Baker, Ventriloquist.
Feb. 28. Loraine Wyman, Soprano, and Howard Brockway, Pianist.
Mar. 14. Edith Rubel Trio, Concert.
Apr. 4. James Thrasher, French Canadian Dialect Stories, and Nelson Waring, Vaudeville Pianist.
Apr. 13. Lucy Gates, Coloratura Soprano.

CLASSICAL SOCIETY

The Classical Society, composed of instructors and students in the elective Greek and Latin courses, has for its object the increase of interest in the study of the classics. It holds regular meetings for the reading of classical authors, for the discussion of papers, and for reports in the fields of Greek and Latin philology and archæology.

PHI BETA KAPPA

The Williams, or Gamma of Massachusetts, chapter of Phi Beta Kappa was established July 21, 1864. The highest standing one-fourteenth of each class is elected to membership at the end of the Junior year. Sufficient men to make up one-seventh of the class are elected after the mid-year examinations of the Senior year, provided that none fall below the minimum standing prescribed by the society.

HONORS

Honors for high scholarship will be awarded by the Faculty at the end of each college year. The names of the recipients will be read at the Commencement exercises and will be printed in the next annual catalogue. The names of Seniors taking honors may also be printed on the Commencement program.

DEGREES WITH DISTINCTION

The Faculty will recommend to the Trustees that the degree of Bachelor of Arts *cum laude* be conferred upon all members of the graduating class who have received grades equivalent to three-fourths of their semester-hours of grade B and one-fourth of grade C; that the degree *magna cum laude* be conferred upon those who have received grades equivalent to one-half of their semester-hours of grade A and one-half of grade B; and that the degree *summa cum laude* be conferred upon those who have received grades equivalent to three-fourths of their hours of grade A and one-fourth of grade B.

SOPHOMORE HONORS

Sophomore honors will be awarded at the end of Sophomore year to all students who have attained grades of the same excellence as is required for the degrees with distinction at graduation.

FINAL HONORS IN SPECIAL FIELDS

Final honors will be awarded to all students who attain the grade of A or B in the Junior and Senior courses of their Major Group.

Highest final honors will be awarded to all students who attain a grade of A in all the courses of their Major Group.

PRIZES

RHETORICAL PRIZES

On Monday evening of Commencement week, ten speakers, appointed equally from the Junior and the Sophomore classes, deliver original orations in competition for five prizes. The income of two thousand dollars, a part of which was given by Elizur Smith, Esq., of Lee, is appropriated for these prizes.

The Trustees of the college offer two prizes of twenty dollars and ten dollars respectively to members of the Freshman class for excellence in declamation.

BENEDICT PRIZES

The late Hon. Erastus C. Benedict, of the Class of 1821, once an instructor in the college, established seven first prizes of twenty-five dollars each, which may be awarded annually for excellence in the following departments: Latin, Greek, French, German, Mathematics, Natural History, and History; and seven second prizes of fifteen dollars each, which may be awarded in the same departments.

He also founded a prize of twenty-five dollars, to be given annually to that member of the college who, at the close of each college year, shall be found to have received the largest number of prizes.* Honorable mention is here counted as a prize. In case of a tie, the relative grades of the prizes will be taken into account, and honorable mention in Latin or Greek and a Rice book prize will not both be counted.

BOOK PRIZES FROM THE RICE FUND

Six book prizes will be awarded from the Rice fund for excellence in Latin and Greek to students who are not recipients of the Benedict prizes in those subjects.

GRAVES PRIZES

The late Arthur B. Graves, Esq., of the Class of 1858, founded seven prizes, amounting to two hundred dollars, which may be awarded as follows: six prizes of twenty dollars each for the best six essays prepared by members of the Senior class, on subjects assigned by the Faculty; and one prize of eighty dollars to the student who shall deliver his essay in the most effective manner before a public audience. The essays must be deposited in the library.

VAN VECHTEN PRIZE

A prize amounting to seventy dollars, established by A. V. W. Van Vechten, Esq., of the Class of 1847, may be awarded for

*For the present an additional sum of \$75.00 will be given each year by a friend of the college to increase the prize to \$100.00.

extemporaneous speaking. The assignment of this prize will be made by a committee of the Faculty on the basis of a public competition.

RICE PRIZES

The income of five thousand dollars, left to the college by the late James Lathrop Rice, Esq., is by his will appropriated to the encouragement of Latin and Greek scholarship. Of this income sixty dollars may be awarded at Commencement of each year to the member of the Senior class who shall have shown the fullest and most accurate knowledge of certain Latin classics; and forty dollars to the member of the same class who shall have attained the second rank in the knowledge of the same authors; sixty dollars may be awarded at the same time to the member of the Senior class who shall have shown the fullest and most accurate knowledge of certain Greek classics; and forty dollars to the member of that class who shall have attained the second rank in the knowledge of the authors in question. The same student may compete for the prizes in both departments, but no prize will be assigned to a student who has not taken the subject for the four years of the college course. One of the elective year-courses, however, may be passed off by examination; but a course so passed may not count toward a degree.

DEWEY PRIZE

The late Hon. Francis Henshaw Dewey founded a prize of fifty dollars to be awarded to the member of the graduating class who presents the most creditable oration in point of composition and delivery at the Commencement exercises.

LATHERS PRIZE AND MEDAL

The income of a fund of one thousand dollars, received from the late Col. Richard Lathers, is to be used each year as a cash prize of about fifty dollars and also for the making of the Lathers bronze medal from a mould or die, for the manufacture of which Col. Lathers gave an additional sum of one hundred dollars.

This cash prize and medal will be offered in competition to all members of the Senior class who hand to the Secretary of the Faculty, on or before the first day of March preceding their graduation, a written essay of not less than one thousand words on a subject indicated by the Faculty concerning the duty or relation of citizens to the government, and will be assigned to that writer whose essay is pronounced by a committee of the Faculty to be the most worthy of publication. The essay selected shall then be sent by the Secretary of the Faculty to the *Springfield Republican*, or to a journal published in Pittsfield, with the request that it may appear in an early issue of such newspaper. In case none of the competing essays is adjudged worthy of publication, no medal for that year will be awarded.

The subject for the current year is, "The political duties of citizens of the United States."

DAVID A. WELLS PRIZE

In accordance with the will of the late David A. Wells, of the Class of 1847, a prize of \$500 will be awarded annually for the best essay upon a subject in any one of a number of branches of Political Science.

The will provides that if no essay deemed worthy of the prize be presented in any year the award shall be withheld for that year. The successful essay will be printed and circulated by the college out of the residual income of the fund.

Competition is limited by the terms of its foundation to Senior undergraduates, and to graduates of Williams College of not more than three years' standing.

The following provision of the will of the founder of the competition governs the committee in the selection of subjects and in the consideration of essays:

"No subjects shall be selected for competitive writing or investigation and no essay shall be considered which in any way advocates or defends the spoliation of property under form or process of law; or the restriction of commerce in times of peace

by legislation, except for moral or sanitary purposes; or the enactment of usury laws; or the impairment of contracts by the debasement of coin; or the issue and use by Government of irredeemable notes or promises to pay intended to be used as currency and as a substitute for money; or which defends the endowment of such 'paper,' 'notes,' and 'promises to pay' with the legal tender quality."

The subject for the competition for the prize for 1920 will be announced during the winter of 1918-1919. President Garfield will furnish competitors with the titles of authorities on the subject on application.

The essays in the competition must be sent by March 15, 1920, to the president of the college, to whom all communications should be addressed.

The competition for the prize of 1920, with the qualifications already stated, is open to the members of the Classes of 1917, 1918, 1919, and 1920.

CANBY ATHLETIC SCHOLARSHIP PRIZE

A prize of fifty dollars, established by W. Marriot Canby, Jr., of the Class of 1891, may be awarded at Commencement to that member of the Senior class who shall have attained the highest average standing in scholarship during his course, and who shall have fulfilled the requirements of eligibility.

Any member of the Senior class who has been in college since the beginning of his Junior year, and who, at any time during his college course, has represented the college in any recognized intercollegiate athletic contest, shall be eligible.

JOHN SABIN ADRIANCE PRIZE IN CHEMISTRY

Mr. John Sabin Adriance, of the Class of 1882, has given a fund of one thousand dollars, the income of which is to be given to that person who, in the opinion of the instructors in the chemical department, has maintained during his course the highest rank in all the courses offered in that department.

CONANT-HARRINGTON PRIZE IN BIOLOGY

This prize, which yields twenty-five dollars annually, has been founded by the Class of 1893, in memory of their deceased classmates, whose names it bears. The award of this prize is made, upon the recommendation of the Professor of Natural History, to that member of the Senior class who, in his judgment, is best fitted to profit by advanced biological study. The money thus awarded will be used to pay the tuition fee of such student at the Marine Biological Laboratory, Woods Hole.

GREEK PRIZES

The sum of one hundred dollars, contributed annually, for the present, by Eugene Delano, Esq., of the Class of 1866, is awarded in three prizes of fifty, thirty, and twenty dollars respectively, to the members of the Junior class who have shown the greatest excellence in the Greek studies of the Sophomore and Junior years.

FRANCIS W. RAWLE MEMORIAL CUP

By the gift of Messrs. Felton Bent and Henry D. Riley, of the Class of 1895, a cup, to be known as the Francis W. Rawle Memorial Cup, will be awarded annually on the thirtieth day of May to that member of the Freshman class who, in the opinion of the Athletic Council and the Faculty, or a committee thereof, shall have shown during his first full year in college the most marked progress in those branches of athletics that now are, and hereafter may be, prescribed by the Faculty as courses to be taken by the Freshman class. It is further required that the recipient of the cup shall have maintained during his first year an average of at least C in his college work.

FRATERNITY SCHOLARSHIP CUP

A silver Scholarship Cup, presented by a member of the Class of 1899, will be awarded annually to that fraternity which, in the opinion of the Committee on Prizes, exhibits the highest scholarship as evidenced by the comparative grades received

by members of the various fraternities. The cup will be presented for permanent possession to the first fraternity which wins it for three different years.

HORACE F. CLARK PRIZE SCHOLARSHIPS

Two Horace F. Clark Prize Scholarships, in honor of Horace F. Clark, Esq., of the Class of 1833, have been established under the provisions of the will of Madame Marie Louise Souberbeille, his daughter.

These two scholarships of \$500, which in exceptional cases may be combined in a single prize of \$1,000 or may be continued to the same holder for more than one year, are awarded annually to such member or members of the Senior class as may be chosen by the Faculty on the basis of superior scholarship, general ability, and interest in scholarly research, the sum to be paid in instalments at the end of each quarter. Competitive examinations on designated subjects connected with the regular studies of the course and supplementary thereto may be required to test the ability of the candidates.

WILLIAMS COLLEGE GREEK FELLOWSHIP

The sum of \$800 is contributed annually to enable a member of the graduating class, who shows scholarly promise and has distinguished himself in the fields of Latin and Greek classics, to pursue his studies at Athens, at the American School of Classical Studies. The appointment is made by the Faculty on the recommendation of the Departments of Greek and Latin, and may be withheld if there is no suitable candidate. The fellowship is paid in two instalments, at Commencement and in January.

SCHOLARSHIPS

HONOR SCHOLARSHIPS

Several "Honor Scholarships" have been founded by alumni and friends of the college, in order to afford pecuniary aid, and to recognize successful scholarship. But under the present

system all scholarships are considered "Honor Scholarships," and therefore these special "Honor Scholarships," five in number, are now merged in the general list in accordance with previous announcements.

GENERAL SCHOLARSHIPS

The income from the endowments included in the appended list, amounting to about \$9,250 annually, is distributed, by direction of the Trustees, to those students who are known to need aid.

The regulations are as follows:

1 Applications must be made in advance to the Committee on Scholarships upon forms provided by the Chairman. Scholarships granted at the beginning of the college year will be continued through the year, except when forfeited for causes mentioned in paragraph 7. All scholarships lapse at the close of the college year. Application for renewal, including a complete statement of income and expenditure for the year preceding, must be filed before July 1st upon forms provided by the Chairman.

2 All promises of scholarships to students before their admission are provisional. If entrance conditions or college deficiencies are standing against the candidate when the college year opens, his scholarship may thereby be forfeited.

3 All holders of scholarships are expected to carry the number of courses normal for Freshmen, Sophomores, Juniors, or Seniors, namely, four for Sophomores, and five for members of the other classes, except that for the second semester of the Senior year, four instead of five courses may be sufficient.

4 Freshmen receive a stipend of seventy dollars for the first semester. If warranted by grades attained in the first semester, this stipend may be increased for the second semester, according to the scale given below.

After the Freshman year, stipends range from one hundred and forty to two hundred dollars per annum, payable by semesters, and are regraded at the beginning of each year on the basis of the standing attained during the previous year, according to the following scale:

Group 1	\$100.00 per semester	Group 4	\$77.50 per semester
Group 2	92.50 per semester	Group 5	70.00 per semester
Group 3	85.00 per semester		

5 A Freshman or a Sophomore who fails to obtain grades as high as C in at least six semester courses will lose his scholarship for the following year. (See 8 below.)

6 After the Sophomore year, a student who fails to obtain grades as high as C in at least eight semester courses will lose his scholarship for the following year.

7 Any one of the following causes may prevent the consideration of an application, or cause the forfeiture of a scholarship already awarded:

(a) Evidence satisfactory to the Committee that the scholarship is not needed;

(b) Gross neglect of work;

(c) Any serious misconduct;

(d) Indulgence in intoxicating liquors;

(e) Expensive habits. Holders of scholarships must satisfy the Committee that they are exercising strict economy in respect to room, board, and general living expenses.

8 A scholarship may be restored after the lapse of a semester, if the cause of forfeiture has been removed.

Lists of all holders of scholarships, except Freshmen, are printed in the catalogue in groups according to grades.

LIST OF SCHOLARSHIP FUNDS

The John C. Baldwin Fund, 1871.....	\$27,915.14
The William Hilton Fund, 1897, 1899.....	25,710.00
The Alumni Scholarship Fund, 1870.....	10,000.00
The Stephen Stickney Family Memorial Fund, 1910.....	10,000.00
The Mrs. Abby Burrall Mills Fund, 1876.....	8,300.00
The Massachusetts Fund, 1869.....	7,500.00
The Woodbridge Little Fund, 1811, 1813.....	6,000.00
The Ebenezer R. Goodnow Scholarship Fund, 1894.....	6,000.00
The William Eadie Leech Scholarship, 1918.....	6,000.00
The Moses Day Fund, 1880.....	5,000.00
The Milton B. Whitney Fund, 1916.....	5,000.00
The Thomas Thornton Read Permanent Fund, 1888.....	5,948.93
The Mary Brown Ward Warner Scholarship, 1909.....	5,133.13

The Wolcott H. Johnson Scholarship	\$5,000.00
The Three Commonwealth Scholarships, 1861	4,500.00
The Horace Nathaniel Pennoyer Scholarship, 1895	3,500.00
The Francis Henshaw Dewey Scholarship, 1888	3,000.00
The Henshaw Scholarship, 1888	3,000.00
The Joseph White Memorial Scholarship, 1903	3,000.00
The Dr. Edward Newton Beale Scholarship, 1916	3,000.00
The Thomas Thornton Read Scholarship, 1875	2,500.00
The Scholarship of the Class of 1851	2,500.00
The Scholarship of the Class of 1852	2,500.00
The Mrs. Louisa F. Bartlett Scholarship, 1874	2,500.00
The Homer Bartlett Scholarship, 1861, 1874	2,500.00
The William Hyde Scholarship, 1869, 1875	2,500.00
The Mrs. William Hyde Scholarship, 1880	4,756.25
The Orrin Sage Scholarship, 1853, 1875	2,500.00
The Miss Sarah Ruth Sage Scholarship, 1880	4,756.25
The Hancock Scholarship, 1875	2,500.00
The Olin White Geer Memorial Scholarship, 1884	2,500.00
The Paul Ansel Chadbourne Scholarship, 1889	2,500.00
The Charles Henry Thomson Scholarship, 1871	2,500.00
The James Ruthven Adriance Memorial Scholarship, 1880	2,500.00
The Samuel Dennis Warren Scholarship, 1870	2,500.00
The Charles Franklin Gilson Scholarship, 1881	2,500.00
The Scholarship of the Class of 1867	2,500.00
The Scholarship of the Class of 1862	2,500.00
The Ephraim Flint Scholarship, 1904	2,500.00
The Abraham Lansing Scholarship, 1906	2,500.00
The Henry P. Brush Scholarship, 1885	2,375.00
The Amos Lawrence Scholarships, 1847	2,000.00
The Charles Augustus Dewey Scholarship, 1886, 1870	1,500.00
The Charles A. Jessup Scholarship, 1879	1,000.00
The Mrs. Robert Means Fund, 1857	1,000.00
The Abraham Baldwin Olin Scholarship, 1866	1,000.00
The George H. Rosseter Scholarship, 1873	1,000.00
The Newton Henry Rosseter Scholarship, 1870	1,000.00
The Mrs. Charlotte Cone Scholarship, 1856	1,000.00
The Charles Stoddard Scholarship, 1866	1,000.00
The Emory Washburn Scholarship, 1877	1,000.00
The Mrs. Sarah Woodhull Arms Scholarship, 1877	1,000.00
The Cyrus Taggart Mills Scholarship, 1886	1,000.00
The Michael Edward Driscoll Fund, 1896	1,000.00
The George Anderson Scholarship, 1906	1,000.00
The John Dudley Hardy Fund, 1902	1,000.00

The Col. Henry Root Scholarship Fund, 1907.....	\$1,987.78
The Benjamin Howard Fund, 1902.....	952.50
The Ezra Starkweather Fund, 1835.....	943.60
The Franklin Marcellus Olds Fund, 1886.....	700.00
The Charles Milton Turell Scholarship, 1916.....	600.00
The Charles Merriam Scholarship, 1860.....	550.00
The J. Barker and Brothers Scholarship, 1856.....	500.00
The W. W. Mason Scholarship, 1856.....	500.00
The B. F. Bancroft Scholarship, 1856.....	500.00
The Bela Peck Williams Scholarship, 1859.....	500.00
The Thomas W. Williams Scholarship, 1859.....	500.00
The John Tatlock, Jr., Fund, 1892.....	500.00
The Charles Andrews Heath Fund, 1897.....	500.00
The Ira Jewett Geer Fund, 1902.....	500.00
The Fund of the Class of 1840.....	500.00
The Fund of the Class of 1857.....	500.00
The Fund of the Class of 1860.....	450.00
The Funds of six other classes.....	337.00
The Frank Benjamin Yates Fund, 1897.....	500.00
The Mrs. Betsey Barnes Fund, 1879.....	300.00
The Fund of the Class of 1848.....	300.00
The Fund of the Class of 1847.....	200.00
Total.....	\$239,715.58

The Horace F. Clark Prize Scholarship Fund of \$20,000 is not a part of the General Scholarship Fund, its income being distributed as prizes to all successful competitors without regard to their pecuniary circumstances, as is explained on page 112.

EXPENSES

Tuition, \$75 per semester.....	\$150.00	\$150.00
Room charge, \$25 to \$80 per semester.....	50.00	160.00
Board, \$7 per week (38 weeks).....	266.00	266.00
Stationery, books, magazines, etc.....	30.00	30.00
Laundry, repair of clothes, etc.....	30.00	40.00
*Athletic tax, about 15% of room charge.....	7.50	24.00
Light.....	5.00	9.00
Total, from.....	\$538.50	to \$679.00

* The athletic tax is imposed by vote of the student body for the purpose of defraying the expenses of the various athletic organizations. Students working their way through college, however, are exempted from this tax, and those holding scholarships are exempted from 25% of the normal tax.

These items represent the most essential expenses for the year. To them must be added the cost of furnishing a room. Other expenditures must depend entirely upon the personal tastes and habits of the student.

In addition to these items a fee is charged for the use of apparatus and materials in connection with the following courses:

<i>Art 1-2</i>	\$6.00		
<i>Biology 2</i>	2.00		
<i>Biology 3-4</i>	5.00		
<i>Biology 5-6</i>	5.00		
<i>Biology 7-8</i>	5.00		
<i>Chemistry 1</i>	3.00		
<i>Chemistry 2</i>	10.00	and	breakage
<i>Chemistry 3-4</i>	10.00	"	"
<i>Chemistry 5</i>	10.00	"	"
<i>Chemistry 6</i>	5.00	"	"
<i>Chemistry 7</i>	5.00	"	"
<i>Chemistry 8</i>	5.00	"	"
<i>Chemistry 10</i>	5.00	"	"
<i>Geology 3</i>	5.00		
<i>Physics 1-2</i>	5.00		
<i>Physics 3-4</i>	10.00		
<i>Physics 5-6</i>	10.00		

An additional charge of \$10.00 is made on the last semester bill of the Seniors to cover expenses of graduation.

Every student's bill is mailed to him at the beginning of each semester, and he is held responsible for prompt payment, which is required in advance. In case any student fails to pay by the end of the second week after the date of the bill, he may be excluded from all college exercises. No part of a term bill will be refunded for any cause.

Special damage done to college property by students will be charged to them.

Those who enter on an advanced standing, unless they come from another college, pay the following sums as entrance fees, viz.: Sophomores, \$10; Juniors, \$20; Seniors, \$30.

Every student taking courses amounting to more than 16

hours per week at the beginning of any semester will be charged a supplementary fee of \$10 for the extra instruction of that semester; and every student taking courses amounting to more than 19 hours per week at the beginning of any semester will be charged a supplementary fee of \$20 for the extra instruction of that semester.

COLLEGE ROOMS

The college has seven buildings used as dormitories. There are ten triple rooms, one hundred and fifty double rooms, and thirty-one single rooms. These accommodate about three hundred and sixty students. The buildings are heated from a central heating plant. Each man provides his own light. Each building has bath-room and toilet conveniences.

Necessary repairs are made by the college, but all additional work is at the expense of those who occupy the rooms.

There are three methods of securing rooms: by occupancy, by lot, and by application.

1 Up to May 1st of each year the two occupants of any room may retain their room for the ensuing college year by renewing their application and paying half of the yearly charge. One student may hold his half of a double room by securing a room-mate from his own class or from an upper class.

2 The rooms not thus re-engaged are offered to the classes in college in order of their seniority, the choice in each instance being determined by lot.

3 All rooms not taken by the men in college are open to the entering class in the order of application. This application does not constitute a promise on either part, but it gives the applicant an opportunity to select a room if, when the time of choice comes, there is any room open that he desires. An early application is wise. If he wishes a double room, he must select his own room-mate at the time the application is filed, or take the next man on the application list.

To secure a room the applicant must sign the following paper:—

The undersigned hereby applies for the assignment to him of one-half of Room No.....in.....for the college year..... subject to all the published room regulations, and for his personal use and occupancy as a student, and agrees to pay therefor as a part of the annual charges during said year against the undersigned as a student the sum of \$..... payable in half-yearly payments. The first half-yearly payment shall be payable when the assignment is made and no part thereof shall be refunded under any circumstances.

The payment of one-half of the yearly charge when the assignment is made is required of all who take college rooms, both those already members of the college and those intending to enter.

The man who signs for a room must occupy it himself; he cannot transfer it. No double room is secured until both applications are on file with the Treasurer. Each occupant of a college room is held responsible for all damage done to his room.

Students who leave college at the end of the college year, as well as those who are to change from one room to another, or from a college room to a private house or a society house, must remove all furniture and other property from their rooms immediately after Commencement. Furniture not thus removed by the owner will be removed by the college employees and stored at the owner's expense. This expense will be collected of students who leave college when the property is taken away, but in cases of other students it will be charged in the next term bill. All things sent for the students during vacation should be sent in the care of the Superintendent of Buildings.

All student are required to reside in the college dormitories during their first two undergraduate years, unless excused by the Committee on Administration for reasons to be presented in writing by the applicant.

Descriptive lists and price lists of rooms and general information may be obtained on application to the Treasurer.

COMMONS

The College Commons in Currier Hall accommodates about one hundred and fifty men. The management is in the hands of the Commons Club, a student organization, which arranges with

a caterer for board. The present weekly charge is \$7.00. In addition to the dining room, a large and attractively furnished common room is maintained.

WILLIAMS INN

The Williams Inn, formerly the Williams Alumni House, owned by a corporation composed of alumni of the college, is a public inn and is open throughout the year.

HOLDERS OF SCHOLARSHIPS

1917-1918

The following list of holders of scholarships is considered an honor list. It includes the names of none who have not been in college for at least a year, and of none who failed to satisfy the requirements stated on pages 113-114. It therefore excludes the names of all Freshmen and other new students, though they may be receiving the pecuniary advantages of scholarships.

It excludes also the names of a few students who hold scholarships by special vote of the Trustees.

The list is based on the work of the last year, as explained in section 4 on page 113.

A few scholarships are dependent upon local considerations or personal nomination. Incumbents of such scholarships are placed in the groups which correspond to their standing, without regard to the actual value of the scholarships which they hold.

GROUP I

1920

Harold Radcliffe Coan

GROUP II

1919

William Van Buskirk Field

GROUP III

1919

Hamill Davis Martyn
Lawrence Moore
Allyn Coats Swinnerton

1920

William Farnsworth Fowle
Oliver Vanderbilt Lee
Carter Lee Marshall
Edward Welles Power

GROUP IV

1919

Willis Lafferty Buck
Charles Ross Albert
Horace Hallock Brown
Wendell Morris Coates

1921

George William Alderman
Henry Adam Brown, Jr.
John Wensley Crofts
Robert Bruce Hyndman
Harry Mortimer Montgomery
Roger Cleveland Moore
Arthur Hall Richardson

GROUP V

1919

Harry Burr Anthony
Joseph Mortimer Callahan
Gerald Eugene Cress
Edwin G. Hughes, Jr.
Erwin Shepard Spink

1920

Theodore Randall Bundy
Harold Stearns Card
Gerald George Carick
Charilaus George Raphael
Donald Cheney Corbin
William Finder
Roy Melvin Grindy
Ralph Clinton Mason
Abraham Harry Meirowitz
Charles Kenneth Parker
Everett Hughes Potter
Carroll Frank Ransford
Donald Sheldon Rogers
Harold Frederick West

1921

Richard Horrocks Balch
Robert Lord Brandegee
John Hartney Finn
James Pierre Lohman
Everett Wilmer MacNair
Charles Casper Noble
Charles Francis O'Connor
Harry Abram Schechtman
Harry Randolph Seymour
Samuel Irwin Solomon
Arthur Louis Thexton
Louis Gabriel Wagner
Frank William Warren

PRIZES AWARDED AT COMMENCEMENT, 1918

RHETORICAL PRIZES

Contest not held

PRIZES FOR FRESHMAN DECLAMATION CONTEST

FIRST PRIZE—Webster Atwell.....Class of 1921

SECOND PRIZE—Richard Horrocks Balch.....Class of 1921

BENEDICT PRIZES

In Latin

FIRST PRIZE—Carl Hartwig Fraenckel.....Class of 1920

SECOND PRIZE—James Dunlop Ewing.....Class of 1919

In Greek

FIRST and SECOND PRIZES—equally divided between:

Carl Hartwig Fraenckel.....Class of 1920

Otho Fairfield Humphreys, Jr.....Class of 1921

In French

FIRST PRIZE—Oliver Vanderbilt Lee.....Class of 1920

SECOND PRIZE—equally divided between:

Kenneth Adams Bernard.....Class of 1919

Alfred Hubbard Holt.....Class of 1920

In German

FIRST PRIZE—William Van Buskirk Field.....Class of 1919

SECOND PRIZE—Wallace Edmunds Conkling.....Class of 1918

HONORABLE MENTION—Wendell Morris Coates.....Class of 1919

In Mathematics

FIRST PRIZE—Ferdinand Bennett Brigham.....Class of 1920

SECOND PRIZE—Nelson Sherwin Bushnell.....Class of 1920

In Natural History

Not awarded

In History

FIRST PRIZE—Jesse Dunsmore Clarkson.....Class of 1918

SECOND PRIZE—Wallace Edmunds Conkling.....Class of 1918

HONORABLE MENTION—James Haswell Lansing.....Class of 1918

PRIZE FOR PRIZES

John Edwin Bakeless.....Class of 1918

GRAVES PRIZES

For Essays—Class of 1918

John Edwin Bakeless	James Edward Healy
Wallace Edmunds Conkling	George Piersol Murray, Jr.
Edward Tyler Perry	

For Excellence in Delivery

Edward Tyler Perry

VAN VECHTEN PRIZE FOR EXTEMPORANEOUS SPEAKING

John Edwin Bakeless.....Class of 1918

RICE PRIZES

In Latin

FIRST PRIZE—George Harvey Genzmer.....Class of 1918

In Greek

Not awarded

Book Prizes from the Rice Fund

William Palmer Black	Charilaus George Raphael
Theodore Randall Bundy	Frederick Ten Eyck Sutphen
Arthur Bliss Perry	Todd Groesbeck Tiebout
all of the class of 1920	

DEWEY PRIZE FOR EXCELLENCE IN THE COMMENCEMENT
EXERCISES

Contest not held

LATHERS MEDAL AND PRIZE

John Edwin Bakeless.....Class of 1918

DAVID AMES WELLS PRIZE

Not awarded

CANBY ATHLETIC SCHOLARSHIP PRIZE

George Perkins Dunn.....Class of 1918

JOHN SABIN ADRIANCE PRIZE IN CHEMISTRY

Equally divided between:

Jesse Dunsmore Clarkson.....	Class of 1918
John Putnam Marble.....	Class of 1918

CONANT-HARRINGTON PRIZE IN BIOLOGY

Not awarded

DELANO PRIZES IN GREEK

Not awarded

PHILOLOGIAN-PHILOTECHNIAN EXTEMPORANEOUS SPEAKING
PRIZE

Contest not held

FRANCIS W. RAWLE MEMORIAL CUP

Not awarded

FRATERNITY SCHOLARSHIP CUP

Delta Upsilon Fraternity

HORACE F. CLARK PRIZE SCHOLARSHIPS

Jesse Dunsmore Clarkson.....Class of 1918

James Edward Healy, Jr.....Class of 1918

THE WILLIAMS GREEK FELLOWSHIP

Not awarded

HONORS

FINAL HONORS IN SPECIAL FIELDS

FINAL HONORS

Jesse Dunsmore Clarkson—*Physics, Mathematics*
 George Harvey Genzmer—*Latin*
 George Halle Hays—*Chemistry*
 James Edward Healy, Jr.—*French*
 William White Keifer, Jr.—*History*
 John Putnam Marble—*Chemistry*
 Edward Tyler Perry—*English*
 Clarence Thorn White—*English*

SOPHOMORE HONORS

Class of 1920

Samuel Wagner Anderson	George VanDeusen Hutton
Ferdinand Bennett Brigham	Oliver Vanderbilt Lee
Nelson Sherwin Bushnell	Carter Lee Marshall
Wilson Farnsworth Fowle	Mason Browne Olmsted
Carl Hartwig Fraenckel	Arthur Bliss Perry
Howard Brant Goodrich	Joseph Percival Pollard
Stewart Starks Hawes	Ray Palmer Sackett
Alfred Hubbard Holt	Benjamin Booth Wainwright
	Stewart Winslow

DEGREES CONFERRED IN 1918

DEGREES IN COURSE

BACHELOR OF ARTS

Myron Hilton Atkinson	James Haswell Lansing
DeHart Bergen, Jr.	Eugene William Lohrke
Edwin Kellogg Bertine	Albert Best McConnell
Harold Mercer Blanchard	Frank Sears McGraw, Jr.
Theodore Nevin Booth	Leonard Cheney Maier
Roger Brooke Coulter	Roswell Park Collin May
Monteath Thornton Dayton	Thomas Edward Maytham
Raymond Edward Draper	Albert Fink Milton
Charles Huke Stuart Eaton	Fraser Muir Moffat, Jr.
Monroe Benjamin England	George Piersol Murray, Jr.
Dudley Darling Fowler	Foster Parmelee
Elias Wilbur Gilman	Albert Urbahn Pinkney
John Brookes Glenn	Justus Oscar Ruperti
Henry Moore Halsted, Jr.	Charles Rufus Scott
Miles Morgan Hapgood	Frederic Haviland Sibley
Robert Berry Jewell	Rowland Richards Strong
Oliver James Keller	John McClellan Withrow

CUM LAUDE

John Edwin Bakeless, Φ . B. K.	James Edward Healy, Jr., Φ . B. K.
Tully Orton Buckner	Harold Edgar Hemstreet, Φ . B. K.
Wallace Edmonds Conkling, Φ . B. K.	William White Keifer, Jr., Φ . B. K.
George Perkins Dunn, Φ . B. K.	John Putnam Marble, Φ . B. K.
George Harvey Genzmer, Φ . B. K.	Edward Tyler Perry, Φ . B. K.
George Halle Hays	Clarence Thorn White, Φ . B. K.

MAGNA CUM LAUDE

Jesse Dunsmore Clarkson, Φ . B. K.

MASTER OF ARTS

William Rickcords Folsom	Claude Milton Haggerty
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HONORARY DEGREES

DOCTOR OF DIVINITY

George Lynde Richardson

DOCTOR OF SCIENCE

Raymond Dodge

DOCTOR OF LAWS

Philip Marshall Brown	William Andrews Pew
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STUDENTS*

CANDIDATE (IN RESIDENCE) FOR THE DEGREE OF MASTER OF ARTS

Jinichi Saito, Graduate of Keiogijuka University, 1916.	6 B. H.
Graduate Student, Harvard University, 1916-1918.	
<i>Economics</i>	<i>Government</i>

SENIORS—CLASS OF 1919

Edwin G. Hughes, Jr.	<i>Scranton, Pa.</i>	17 B. H.
Henry Martin Stebbins	<i>Norwich, N. Y.</i>	9 B. H.
Total		2

JUNIORS—CLASS OF 1920

Theodore Randall Bundy	<i>Troy, N. Y.</i>	22 B. H.
Richard Irwin Johannesen	<i>Pittsfield</i>	20 B. H.
Abraham Harry Meierowitz, U. S. N. R. F.	<i>Pittsfield</i>	14 B. H.
Frederick William Smith, Jr.	<i>New Rochelle, N. Y.</i>	9 B. H.
Total		4

SOPHOMORES—CLASS OF 1921

Elbridge Adams, 2d	<i>Williamstown</i>	5 W. C.
Henry Adam Brown, Jr.	<i>Washington, D. C.</i>	19 B. H.
Gregory Nott Camp	<i>New York, N. Y.</i>	4 B. H.
William Walker de Laval	<i>Orange, N. J.</i>	4 B. H.
John Niles Huyck	<i>Albany, N. Y.</i>	12 B. H.
Everett Wilmer MacNair	<i>Holmdel, N. J.</i>	18 B. H.
Ralph Earl Prime, III	<i>Yonkers, N. Y.</i>	27 B. H.
George Bentley Searls	<i>Adams</i>	28 B. H.
Albert Groll Wilkinson	<i>Detroit, Mich.</i>	12 B. H.
Total		9

LIST OF ABBREVIATIONS

The following abbreviations are used in the addresses of students:

B. H. Berkshire Hall	M. H. Morgan Hall
C. H. Currier Hall	W. C. West College
E. C. East College	W. H. Williams Hall
F. H. Fayerweather Hall	

* This list is incomplete as many students now in the Service will return to College before the end of the year.

FRESHMEN—CLASS OF 1922

Percy Stickney Bright	<i>Philadelphia, Pa.</i>	1 B. H.
Marcus Rose Field	<i>Asheville, N. C.</i>	1 B. H.
Henry Kirk Greer	<i>North Adams</i>	5 B. H.
John Hinton Hollingshead	<i>Boise, Idaho</i>	10 B. H.
Jo Allison Humes	<i>Homer, La.</i>	5 B. H.
Hervey Crampton Lawder	<i>Mount Vernon, N. Y.</i>	7 B. H.
Henry Miller Lawder	<i>Mount Vernon, N. Y.</i>	7 B. H.
William Roeder McLoud	<i>Cleveland, O.</i>	3 B. H.
Adelbert Lewis Merriam	<i>Blackinton</i>	24 B. H.
Carl Frederick Muckenhaupt	<i>Poughkeepsie, N. Y.</i>	23 B. H.
Thomas Rodman Plummer, 2d	<i>New Bedford</i>	1 B. H.
William Rittenhouse Richardson	<i>Jersey City, N. J.</i>	7 B. H.
Kenneth Scott	<i>Watertown, Conn.</i>	10 B. H.
Howard Caswell Smith, Jr.	<i>Oyster Bay, L. I.</i>	3 B. H.
Walter Bernard Wolfe	<i>Holyoke</i>	16 B. H.
George Ezekiel Zalles, Jr.	<i>New York, N. Y.</i>	2 B. H.
Total		16

STUDENTS ARMY TRAINING CORPS

Inducted (Enlisted in the Military Forces of the United States)

John Churchill Acly		<i>Pittsfield</i>
Hartwell Borden Adams (1922)		<i>Fall River</i>
John Alden (1922)		<i>Buffalo, N. Y.</i>
George William Alderman (1921)		<i>Williamstown</i>
Claude Beers Allen (N)		<i>North Adams</i>
Herbert Warren Allen, Jr. (1922)		<i>St. Paul, Minn.</i>
Torrey Allen (1921)	CAMP TAYLOR	<i>Burlington, Vt.</i>
Raymond Lester Anderson		<i>North Adams</i>
Robert Earl Anthony		<i>Adams</i>
Webster Atwell (1921)	CAMP TAYLOR	<i>Dallas, Texas</i>
Harold Easter Ayer (N)		<i>West Claremont, N. H.</i>
James Mellick Baker (1922)		<i>Great Neck, N. Y.</i>
John Conger Baker, Jr. (1921)	CAMP TAYLOR	<i>Great Neck, N. Y.</i>
Arthur McDonald Baldwin (1922)		<i>Amityville, L. I.</i>
Russell Henry Bayly (1922)		<i>Denver, Colo.</i>
Alan Lamplough Becket (1922)	CAMP LEE	<i>East Orange, N. J.</i>
Karl Harold Behre (1920)	CAMP LEE	<i>New Canaan, Conn.</i>
Sheldon Cadman Belcher (1922)	CAMP TAYLOR	<i>New York, N. Y.</i>
Geoffrey Rupert Bennett (1922)		<i>White Plains, N. Y.</i>
Albert William Bianchi (1922) (N)		<i>Patchogue, N. Y.</i>
Philip Randal Blake (1922) (N)		<i>Springfield</i>
Edwin Albert Blattmann		<i>North Adams</i>
Hoyt Cambreleng Bonner (1920)	CAMP LEE	<i>Brooklyn, N. Y.</i>
Robert Lord Brandegee		<i>Farmington, Conn.</i>
Daniel Morgan Brigham (1921)	CAMP TAYLOR	<i>Denver, Colo.</i>
Ferdinand Bennett Brigham (1920) (N)		<i>Newton Center</i>
Storrs Talcott Brigham (1922)		<i>Granby, Conn.</i>
Herbert Lawrence Brown		<i>Adams</i>

EXPLANATION OF SYMBOLS

Numerals in parenthesis after a name indicate the class in Williams College with which the student would normally be affiliated.

Names of special students are without numerals.

An N in parenthesis after a name indicates that the man belongs to the naval section.

Designation of the Officers Training Schools to which men have been transferred is indicated in small capitals after the names:

Camp Lee	Infantry
Camp Taylor	Field Artillery
Fort Monroe	Coast Artillery
Camp Hancock	Machine Gun
Aberdeen Proving Grounds	Ordnance

Olcott Mitchell Brown	CAMP LEE	<i>Salem</i>
Paul Brown (1922)	CAMP LEE	<i>Portland, Me.</i>
Sterling Allen Brown (1922)		<i>Washington, D. C.</i>
John Gerard Browne		<i>Ronkonkoma, N. Y.</i>
Herman Ewald Brucker (1921) (N)		<i>New Ycrk, N. Y.</i>
Sherwood Emerson Buck (1920)		<i>Worcester</i>
Trescott Avery Buell (1922)		<i>Pittsfield</i>
Hugh Bullock (1921)	CAMP LEE	<i>Denver, Colo.</i>
William Chapman Burger (1922)		<i>Brooklyn, N. Y.</i>
Edward Timothy Buxton, Jr. (1922)		<i>St. Paul, Minn.</i>
Alexander Everett Cabana		<i>Torrington, Conn.</i>
Joseph Mortimer Callahan (1919)	CAMP TAYLOR	<i>Norwood</i>
George Bergen Carman (1921)	CAMP TAYLOR	<i>Hempstead, N. Y.</i>
Newton Brown Castle (1922) (N)		<i>Rochester, N. Y.</i>
Mitchell Vaughn Charnley (1919)	FORT MONROE	<i>Goshen, Ind.</i>
Lloyd Ernest Clapp		<i>Greenfield</i>
Frederick Hale Clark (1919)	CAMP TAYLOR	<i>Holyoke</i>
Rufus Campion Clark		<i>Winchester</i>
Russell Crosby Clark (1922)		<i>New Brighton, N. Y.</i>
Warren Cook Clark (1922)		<i>Springfield</i>
Lloyd Clarkson (1922)		<i>Brooklyn, N. Y.</i>
Howard Radcliffe Coan (1920)	CAMP HANCOCK	<i>Minneapolis, Minn.</i>
Wendell Morris Coates (1919)	ABERDEEN PROVING GROUNDS	<i>Marblehead</i>
Guy Harold Coats (1922)		<i>New Rochelle, N. Y.</i>
Richard Barton Cole (1921)	CAMP TAYLOR	<i>West Newton</i>
Sheldon Townsend Coleman (1922)		<i>Babylon, N. Y.</i>
Walter Donald Coleman (1922)		<i>Troy, N. Y.</i>
James Steffan Collins (N)		<i>Wyncote, Pa.</i>
Richard deRaismes Storey Combes (1922)		<i>Elmhurst, N. Y.</i>
Charles Clement Conklin		<i>Lenox</i>
Ferris Richardson Conklin (1921)	CAMP TAYLOR	<i>New Rochelle, N. Y.</i>
Edward Ewen Connor (1921)	FORT MONROE	<i>New Bedford</i>
Donald Cheney Corbin (1921)		<i>Southbridge</i>
Harold Edward Coughlin (1921) (N)		<i>Passaic, N. J.</i>
Earl Wendel Count (1922)		<i>Ellenville, N. Y.</i>
David Norman Craig (1922)		<i>Chicopee</i>
John Wensley Crofts (1921)	CAMP TAYLOR	<i>Mount Vernon, N. Y.</i>
Donald Cruse (1922)		<i>New York, N. Y.</i>
Charles Mann Cutler (1921)	CAMP LEE	<i>Boston</i>
Edward DeLorme Cutler (1920)	CAMP LEE	<i>Montpelier, Vt.</i>
William Dale Dana	CAMP TAYLOR	<i>Brooklyn, N. Y.</i>

Fred Chapman Daniels		<i>Pawling, N. Y.</i>
Earl Henry Dartt		<i>Pittsfield</i>
Waters Smith Davis, Jr. (1922)		<i>Galveston, Texas</i>
Herbert Arnold Dessau (1920)		<i>New York, N. Y.</i>
George Stanley Dew		<i>Torrington, Conn.</i>
Daniel Dewey (1922) (N)		<i>Worcester</i>
George Tufts Dewey, Jr. (1922) (N)		<i>Worcester</i>
Edwards Haven Dickinson (1922)		<i>Holliston</i>
Winthrop Bulkley Dillingham (1922)		<i>Millburn, N. J.</i>
Randolph Doherty (1922)		<i>Clifton, N. J.</i>
Francis Edward Donovan		<i>North Adams</i>
Charles Welby Dorsey, Jr. (1921)	CAMP TAYLOR	<i>Hillsdale, Md.</i>
Raymond Laurence Dunn		<i>Lenox</i>
Stanley Malcolm Dunn (1922)		<i>Woonsocket, R. I.</i>
Frederick Heber Eaton (1922)	CAMP TAYLOR	<i>East Orange, N. J.</i>
Stuart Franklin Edson (1922)		<i>Greenwich, Conn.</i>
James Franklin Elliman (1922)		<i>Yonkers, N. Y.</i>
Chapman Gardiner Elliot (1922)		<i>New York, N. Y.</i>
Valentine Augustus Ely		<i>Morristown, N. J.</i>
Richards Haskell Emerson (1922)		<i>Springfield</i>
Gilbert Moses England		<i>Pittsfield</i>
James Atwater Fernald, Jr. (1922)		<i>Pittsburgh, Pa.</i>
Francis Eugene Field (1922)		<i>Asheville, N. C.</i>
Louis Frederick Fieser, Jr. (1920)	CAMP LEE	<i>Columbus, Ohio</i>
William Finder (1920)	CAMP LEE	<i>Troy, N. Y.</i>
Clinton Willis Fitch		<i>Conway</i>
Lawrence Elliott Fitch (1920)	CAMP LEE	<i>Rochester, N. Y.</i>
Peter Baldwin Fleming (1922)		<i>Amityville, N. Y.</i>
Thomas James Fowler (1920)		<i>Williamstown</i>
Carl Hartwig Fraenckel (1920)	CAMP TAYLOR	<i>New York, N. Y.</i>
Charles Dickerman Fraker (1921)	CAMP TAYLOR	<i>Duluth, Minn.</i>
Frederic William Frasier (1921)	CAMP LEE	<i>New York, N. Y.</i>
Louis Bryant Freeman (1921)	CAMP TAYLOR	<i>Maplewood, N. J.</i>
Frederick William Fulle, Jr. (1921)	CAMP LEE	<i>Upper Montclair, N. J.</i>
William Arthur Gardiner		<i>Ashland, N. H.</i>
Abraham Brookins Gardner		<i>Pownal, Vt.</i>
Edward Williams Garfield (1922)		<i>Cleveland, Ohio</i>
Sherwood Beach Gay (1921)		<i>East Orange, N. J.</i>
Louis Frederick Gebhardt (N)		<i>Boston</i>
Merrill Henry Germain		<i>Conway</i>
Albert Irving Golden		<i>Melrose Park, Pa.</i>
Donald Wells Goodrich (1919)		<i>Brooklyn, N. Y.</i>
George William Gordon		<i>Peekskill, N. Y.</i>

Julius Caulkins Gray (1922)	CAMP TAYLOR	<i>New Rochelle, N. Y.</i>
Roy Melvin Grindy (1920)	CAMP TAYLOR	<i>North Adams</i>
Charles Henry Gummey, Jr. (1922)		<i>Germanstown, Pa.</i>
Otto Henry Hafner (1919)		<i>New York, N. Y.</i>
Robert Herman Hahlo (1922)		<i>Cranford, N. J.</i>
Stephen Austin Hall		<i>Minneapolis, Minn.</i>
Charles Nicholas Harder (1922) (N)		<i>New York, N. Y.</i>
Joseph Polk Hardie		<i>New York, N. Y.</i>
Bernard Page Haubrich (N)		<i>Claremont, N. H.</i>
Ernest Kirtland Henderson, Jr. (1920)	CAMP TAYLOR	<i>New York, N. Y.</i>
John Jacob Hess (1922)		<i>Spokane, Wash.</i>
Robert Sargent Hibbard (1921)	CAMP LEE	<i>Pittsfield</i>
George Morrison Hiser		<i>Adams</i>
Robert Clifton Hodgkins		<i>Northampton</i>
Stephen Woolsey Hopkins (1922)		<i>Tarrytown, N. Y.</i>
Willard Evans Hoyt, Jr. (1922)		<i>Williamstown</i>
Otho Fairfield Humphreys, Jr. (1920)		<i>West Orange, N. J.</i>
Stanley Booth Illingworth		<i>North Adams</i>
Dudley Marvin Irwin, Jr. (1921)		<i>Buffalo, N. Y.</i>
Louis Sherwood Irwin (1921) (N)		<i>Hempstead, N. Y.</i>
Victor Leonard Jacobsen		<i>Cleveland, Ohio</i>
Channing Kingsland Jaques		<i>New Rochelle, N. Y.</i>
Arthur Osborne Jennings (1922)		<i>Southport, Conn.</i>
Edward Whitney Johnson (1922)		<i>Easthampton</i>
Howard Sedgwick Johnson	FORT MONROE	<i>Pittsfield</i>
William Rutledge Johnston		<i>North Adams</i>
Damon Everett Jones (1921)	CAMP TAYLOR	<i>West Newton</i>
Homer Warren Jones (N)		<i>Revere</i>
Tom Jopling (1921)		<i>Willoughby, Ohio</i>
Alan Wilson Joslyn (1921)		<i>Detroit, Mich.</i>
Harold Rittenhouse Keen (1919) (N)		<i>Greenwich, Conn.</i>
Alfred Frederic Kieser (1920)		<i>Brooklyn, N. Y.</i>
Rawson Jackson Kimball (1922)		<i>Summit, N. J.</i>
Thomas Glentworth Kimball (1919)	CAMP LEE	<i>Summit, N. J.</i>
Charles Hazard Kimberly (1920)		<i>Watervliet, N. Y.</i>
Ralph Tewksbury King (1921)	CAMP TAYLOR	<i>Cleveland, Ohio</i>
Woods King (1922)	CAMP TAYLOR	<i>Cleveland, Ohio</i>
David Clark Kinnell		<i>Pittsfield</i>
John Oscar Borg Knox		<i>Great Barrington</i>
Raymond Francis Lahiff (1922)		<i>Williamstown</i>
William Landesman (1922)		<i>West Orange, N. J.</i>
Francis Quackenboss Lasch		<i>Pittsfield</i>
Albert Augustus Lavalie		<i>Springfield</i>

John Learned		<i>Washington, D. C.</i>
Alfred Ashton Lee		<i>North Adams</i>
Oliver Vanderbilt Lee (1920)		<i>East Orange, N. J.</i>
Philip Arthur Lee		<i>North Adams</i>
J. Harold Loizeaux (1922)		<i>Plainfield, N. J.</i>
Frank Mathias Low, Jr. (1922)		<i>Portland, Me.</i>
William Paul Luedeke, Jr. (N)		<i>Buffalo, N. Y.</i>
Donald McLean (1922)	CAMP LEE	<i>Lansdowne, Pa.</i>
Francis MacMillan (1922)		<i>West Orange, N. J.</i>
Forrest Hall Macomber (1922)		<i>Brooklyn, N. Y.</i>
Emerson Hopkins McWhorter, Jr. (1922)		<i>Brentwood, N. Y.</i>
Alfred Whittlesey Mahan (1921)		<i>New London Conn.</i>
Carter Lee Marshall (1920)		<i>Washington, D. C.</i>
Hamill Davis Martyn (1919)	FORT MONROE	<i>Hackettstown, N. J.</i>
Ralph Clinton Mason (1920)	CAMP TAYLOR	<i>Williamstown</i>
Amory Mellen (1922)		<i>Stockbridge</i>
Donald Bedell Miller (1922)		<i>Pittsfield</i>
John Tyler Mills, Jr. (1920)	CAMP TAYLOR	<i>New York, N. Y.</i>
Gordon Milne		<i>Pittsfield</i>
Stanley Baker Milton (1921)		<i>Worcester</i>
Philip MacDonald Miner		<i>Adams</i>
Knowlton Mixer, Jr. (1921)		<i>Eden, N. Y.</i>
John Rogerson Montgomery, Jr. (1922)		<i>Hubbard Woods, Ill.</i>
John Mohler Moody		<i>Columbus, Ohio</i>
Walden Goff Moore (1922)		<i>Aiken, S. C.</i>
Ralph Smith Munger (1921)	CAMP TAYLOR	<i>Waterbury, Conn.</i>
John Dewey Newell		<i>Beverly</i>
George Alexander Newman, 3rd (1922)		<i>Spring Hope, N. C.</i>
Herman Jones Nichols		<i>Williamstown</i>
Charles Casper Noble (1922)	CAMP LEE	<i>Newton Highlands</i>
Edgerton Grant North (1921)		<i>Brooklyn, N. Y.</i>
Charles Francis O'Connor (1921)		<i>Williamstown</i>
William Flagg Olmsted (1922) (N)		<i>Yonkers, N. Y.</i>
George Seligman Oppenheimer (1920)	CAMP TAYLOR	<i>New York, N. Y.</i>
George Nelson Ostrander, Jr. (1922)		<i>Saratoga Springs, N. Y.</i>
Fernald Ellsworth Painter (1921)	CAMP HANCOCK	<i>Minneapolis, Minn.</i>
Charles Kenneth Parker (1919)		<i>Pittsfield</i>
Reinold Marvin Parker (1920) (N)		<i>Hartford, Conn.</i>
Henry Thurston Patch (1922)	FORT MONROE	<i>Roxbury</i>
James Hamilton Paterson (1920)		<i>Buffalo, N. Y.</i>
Edgar Young Pattison (1919) (N)		<i>Indianapolis Ind.</i>
Eric Howard Paddison (1922)		<i>New York, N. Y.</i>

Philip Stokes Patton (1921)		Pittsburgh, Pa.
Sherwood Townsend Peckham (1922)		New Rochelle, N. Y.
Arthur Bliss Perry (1920)		Cambridge
Rogers Perry (1922)		New Haven, Conn.
Philip Phillips (1922)		Buffalo, N. Y.
Spencer Phillips (1922)		Montclair, N. J.
Stuart Phillips (1921)	CAMP LEE	Montclair, N. J.
John Robert Piatt (1922)		Goshen, Ind.
Charles Sherman Bentley Pike (1920)	CAMP LEE	La Grange, Ill.
Gilbert Claude Poncet (1922)	CAMP TAYLOR	South Orange, N. J.
Everett Hughes Potter (1920)		Williamstown
John Whittelsey Power (1921)		Pittsfield
William Howard Prescott, Jr. (1922)		Cleveland, Ohio
Kenneth Frederick Pring (1922) (N)		South Orange, N. J.
Thomas Francis Purcell		Pownal, Vt.
Carroll Frank Ransford (1920)	CAMP TAYLOR	Williamstown
Charilaus George Chaousoglou Raphael (1920)		Springfield
John Gray Reinhardt (1920)	CAMP LEE	Spokane, Wash.
Arthur Hall Richardson (1921)	CAMP TAYLOR	Philadelphia, Pa.
Charles Stewart Richmond (1922)		Chatham, N. J.
Donald Crowell Richmond		Chatham, N. J.
Reese Frederick Rickards		Blackinton
Philip Nichols Rood		Ashley Falls
Alfred Oscar Rose (1920)		New York, N. Y.
Fred Henry Roth (1921)	CAMP TAYLOR	Cincinnati, Ohio
Harry Macdonald Rounds (1922)		Ridgewood, N. J.
Robert Rubino (1922)		Babylon, L. I.
James Rupert Rundell (1922)		Adams
Clarence Wilson Russell		Winchester
Ray Palmer Sackett (1920)	CAMP HANCOCK	East Orange, N. J.
Harold Crooker Sanford	FORT MONROE	Cranford, N. J.
Harrison Kimball Sayen (1922)	CAMP TAYLOR	West Philadelphia, Pa.
Clinton Wolff Schelling (1922) (N)		Brooklyn, N. Y.
Theodore Maynard Schenck (1922) (N)		Brooklyn, N. Y.
John Neff Schermerhorn (1920)		Buffalo, N. Y.
Alfred Cary Schlesinger (1921)	CAMP TAYLOR	College Point, N. Y.
Bruno Moritz Schmidt (1922) (N)		North Adams
Clarence Wood Scott		Union City, Conn.
George Bradley Seager (1921)	CAMP TAYLOR	Pittsfield
Edward Rees Seaman (1922)		Unadilla, N. Y.
George Barnes Secor		Toledo, Ohio
Charles Alexander Seibert (1922)		Troy, N. Y.

William Dupee Sidley (1922)	CAMP TAYLOR	Winnetka, Ill.
Harold Clark Simonds		Burlington, Vt.
Walter Knapp Slack (1922)		Saginaw, Mich.
Nelson Herrick Small (1922) (N)		Braintree
Sherwood Perry Smedley (1922)		Williamstown
Edwin Elliott Smeeth, Jr. (1921)	CAMP TAYLOR	Oak Park, Ill.
Oliver Dow Smith, Jr.		Syracuse, N. Y.
Paul Reed Smith		Noble, Ohio
Robert Whitelaw Smith (1922)		White River Junction, Vt.
Daniel Hubbard Squire, Jr. (1922)	CAMP TAYLOR	Buffalo, N. Y.
Elwood T. Starbuck	FORT MONROE	Goshen, Ind.
Claude Bradford Steele (N)		South Williamstown
Francis Barretto Stewart (1919)	CAMP LEE	Ossining, N. Y.
Bradford Field Story (1922)		Newton
Roy Leon Story (N)		Greenfield
William Wilson Stout (1922) (N)		Menomonie, Wis.
William Chisholm Stubbs, Jr.		Highland Park, Ill.
Eugene Patrick Sullivan (N)		Greenfield
Frederick Ten Eyck Sutphen (1920)		Englewood, N. J.
Harold Leslie Sweeley		Greenfield
Joseph Moore Tatem (1921) (N)		Haddonfield, N. J.
Todd Groesbeck Tiebout (1920)	CAMP LEE	Brooklyn, N. Y.
Arthur Rossiter Titus (1921)		Flushing, N. Y.
Charles Tucker (1922)		New Bedford
David Budlong Tyler (1921)		Brooklyn, N. Y.
Henry Mandeville Ufford (1921)		Elmira, N. Y.
Charles Werter Van Deusen (1921)		Hudson, N. Y.
Enderse Gross Van Hoesen (1921)	CAMP LEE	Cortland, N. Y.
William Floyd Van Saun (1919) (N)		Hackensack, N. J.
John Anthony van Zelm, Jr.		New Rochelle, N. Y.
Joseph McCord Veroce (1922)		Columbus, Ohio
Ralph Leonard Volk (1922)		Pittsfield
Barent Sloane Vroman (1922)		North Tonawanda, N. Y.
Joseph Allen Wakeman (1922)		Fairfield, Conn.
John William Wallace		North Abington
Christopher Longstreth Ward, Jr. (1920)	CAMP LEE	Wilmington, Del.
Sumner James Waring (1920)	CAMP LEE	Fall River
John Eliot Warner (1922) (N)		Evanston, Ill.
Bentley Wirt Warren, Jr. (1922)		Boston
James Russell Washburne	CAMP TAYLOR	Pittsfield
Donald Whitsett Wells (1921)	CAMP TAYLOR	Carthage, Mo.
Roger Wood Wentworth (1922) (N)		Cohasset

Silas Elisha Wentworth (1922)	<i>Pittsfield</i>
Edgar Thorne Wheeler (1920)	<i>Albany, N. Y.</i>
Harold Harrison White	<i>Williamstown</i>
Edmund Speere Whitman	<i>Akron, Ohio</i>
Henry Harriman Wickes (1921)	<i>Rochester, N. Y.</i>
Allan Barton Williams, Jr. (1922)	<i>Olean, N. Y.</i>
James Burnham Williams (1922)	<i>Philadelphia, Pa.</i>
William Holland Wilmer, Jr.	<i>Washington, D. C.</i>
Harold Stuart Wilson (1922)	<i>Paterson, N. J.</i>
Stewart Winslow (1920) (N)	<i>Fall River</i>
Kenneth Taylor Wood	<i>Columbus, Ohio</i>
Burton Knowlton Woodward, Jr.	
(1919) (N)	<i>Troy, N. Y.</i>
Henry Abbe Woodward (1919) (N)	<i>Troy, N. Y.</i>
Edward Guild Wyckoff, Jr. (1919)	<i>Ithaca, N. Y.</i>
Frank Ewart Wylde (N)	<i>North Adams</i>
Arthur Vreeland Youngman (1922) (N)	<i>Montclair, N. J.</i>
William Irving Zeitler (1922)	<i>Menands, N. Y.</i>
Total.....	298

Enrolled (Members of the Students Army Training Corps but not inducted,
being under eighteen years of age)

George Francis Baker, Jr. (1922)	<i>Evanston, Ill.</i>
Richard Horrocks Balch (1921)	<i>Utica, N. Y.</i>
Theodore Colescott Brandeis, Jr. (1922)	
(N)	<i>South Orange, N. J.</i>
Herbert Maxwell Brune, Jr. (1922)	<i>Ruxton, Md.</i>
Daniel Blodgett Burnham, Jr. (1922)	<i>White Plains, N. Y.</i>
John Lawson Cameron (1922)	<i>Williamstown</i>
Alfred Hastings Chapin, Jr.	<i>Springfield</i>
Alexander Hamilton Chapman (1922)	<i>Jamaica, N. Y.</i>
Clement Biddle Penrose Cobb (1922)	<i>New York, N. Y.</i>
Hampton Denman Ewing, Jr. (1922)	<i>Yonkers, N. Y.</i>
Marshall Grout (1922)	<i>Brooklyn, N. Y.</i>
Edward Lawrence Holsten (1922)	<i>New York, N. Y.</i>
William Huckel (1922)	<i>Manhasset, L. I.</i>
Douglas Anderson Hyde (1922)	<i>North Adams</i>
Robert Bruce Hyndman (1921)	<i>Greenwich, Conn.</i>
Lee Charles Jeffreys (1922)	<i>Greenwich, Conn.</i>
Charles Frederick Kellers (1922)	<i>Jersey City, N. J.</i>
Paul Lazarus Kohns (1921)	<i>New York, N. Y.</i>
Arthur Joseph Lafave (1922)	<i>North Adams</i>

Richmond Lewis (1922)	<i>Springfield</i>
Hiram William Lyon (1922)	<i>Buffalo, N. Y.</i>
Donald Welles McFarlin (1921) (N)	<i>East Orange, N. J.</i>
John Dingee Mendes (1922)	<i>Brooklyn, N. Y.</i>
Samuel Mendleson (1922)	<i>Albany, N. Y.</i>
James Irwin Metcalf (1922)	<i>Mount Vernon, N. Y.</i>
John Edmund Moody (1922)	<i>New York, N. Y.</i>
William Holden Noble (1921) (N)	<i>Evanston, Ill.</i>
John Burr Northrop (1922)	<i>Fredericksburg, Va.</i>
Minturn Oliver (1922)	<i>Westfield, N. J.</i>
George William Palmer (1921)	<i>Brooklyn, N. Y.</i>
Herbert Russell Pease (1922)	<i>Chester</i>
Henry Sherwin Prescott (1922)	<i>Cleveland, Ohio</i>
Douglas Hall Rose, 2nd (1922)	<i>Baltimore, Md.</i>
George Irving Rounds (1922)	<i>Ridgewood, N. J.</i>
Harry Klock Schaufier (1922)	<i>Washington, D. C.</i>
Edward Willis Sherman, Jr.	<i>New Bedford</i>
William Mansfield Stevenson, Jr.	<i>Springfield</i>
Charles Lincoln Taylor, Jr. (1921)	<i>Hartford, Conn.</i>
Arthur Louis Thexton (1921)	<i>Oak Park, Ill.</i>
Allen Marshall Tucker	<i>Durham, Conn.</i>
Richard Stockton Ullery (1922)	<i>White River Junction, Vt.</i>
Dudley Brabner Wallace (1922)	<i>Springfield</i>
Frank William Warren (1921) (N)	<i>Briggsville</i>
Vincent Fiske Wilcox, Jr. (1922)	<i>Passaic, N. J.</i>
Clark Williams (1922)	<i>New York, N. Y.</i>
John Ellis Wilson (1922)	<i>Westfield</i>
John Andrew Withrow (1921)	<i>Cincinnati, Ohio</i>
Total.....	47

SUMMARY BY CLASSES

GRADUATE STUDENT (RESIDENT).....	1
SENIORS.....	2
JUNIORS.....	4
SOPHOMORES.....	9
FRESHMEN.....	16
ENLISTED MEN.....	298
ENROLLED MEN.....	47
TOTAL.....	377

SUMMARY BY STATES

MASSACHUSETTS.....	115
NEW YORK.....	112
NEW JERSEY.....	41
CONNECTICUT.....	19
OHIO.....	17
PENNSYLVANIA.....	11
ILLINOIS.....	9
VERMONT.....	7
MINNESOTA.....	6
DISTRICT OF COLUMBIA.....	6
INDIANA.....	4
MICHIGAN.....	3
NORTH CAROLINA.....	3
NEW HAMPSHIRE.....	3
COLORADO.....	3
MARYLAND.....	3
TEXAS.....	2
MAINE.....	2
WASHINGTON.....	2
IDAHO.....	1
LOUISIANA.....	1
RHODE ISLAND.....	1
SOUTH CAROLINA.....	1
WISCONSIN.....	1
DELAWARE.....	1
MISSOURI.....	1
VIRGINIA.....	1
<u>JAPAN.....</u>	<u>1</u>
TOTAL.....	377

ALPHABETICAL LIST OF NAMES

Aacy, John Churchhill, *S.A.T.C.*
Adams, Elbridge, 2nd, *Soph.*
Adams, Hartwell Borden, *S.A.T.C.*
ADRIANCE, JOHN SABIN, *Lecturer*
ADRIANCE, VANDERPOEL, *Lecturer*
AGARD, HARRY LESLIE, *Asst. Prof.*
Alden, John, *S.A.T.C.*
Alderman, George William, *S.A.T.C.*
Allen, Claude Beers, *S.A.T.C.*
Allen, Herbert Warren, Jr., *S.A.T.C.*
ALLEN, SAMUEL EDWARD, *Asst. Prof.*
Allen, Torrey, *S.A.T.C.*
Anderson, Raymond Lester, *S.A.T.C.*
Anthony, Robert Earl, *S.A.T.C.*
Atwell, Webster, *S.A.T.C.*
Ayer, Harold Easter, *S.A.T.C.*

Baker, George Francis, Jr., *S.A.T.C.*
Baker, James Mellick, *S.A.T.C.*
Baker, John Conger, Jr., *S.A.T.C.*
Balch, Richard Horrocks, *S.A.T.C.*
Baldwin, Arthur McDonald, *S.A.T.C.*
Bayly, Russell Henry, *S.A.T.C.*
Becket, Alan Lamplough, *S.A.T.C.*
Behre, Karl Harold, *S.A.T.C.*
Belcher, Sheldon Cadman, *S.A.T.C.*
Bennett, Geoffrey Rupert, *S.A.T.C.*
Bianchi, Albert William, *S.A.T.C.*
Blake, Philip Randall, *S.A.T.C.*
Blattman, Edwin Albert, *S.A.T.C.*
Bonner, Hoyt Cambreleng, *S.A.T.C.*
BOTSFORD, ELI HERBERT, *Inst.*
Brandegge, Robert Lord, *S.A.T.C.*
Brandeis, Theodore Colescott, Jr.,
S.A.T.C.
Brigham, Daniel Morgan, *S.A.T.C.*
Brigham, Ferdinand Bennett,
S.A.T.C.
Brigham, Storrs Talcott, *S.A.T.C.*
Bright, Percy Stickney, *Fr.*

Brown, Henry Adam, Jr., *Soph.*
Brown, Herbert Lawrence, *S.A.T.C.*
Brown, Olcott Mitchell, *S.A.T.C.*
Brown, Paul, *S.A.T.C.*
Brown, Sterling Allen, *S.A.T.C.*
Browne, John Gerard, *S.A.T.C.*
Brucker, Herman Ewald, *S.A.T.C.*
Brune, Herbert Maxwell, Jr.,
S.A.T.C.
Buck, Sherwood Emerson, *S.A.T.C.*
Buell, Trescott Avery, *S.A.T.C.*
BUFFINTON, ARTHUR HOWLAND,
Asst. Prof.
Bullock, Hugh, *S.A.T.C.*
Bundy, Theodore Randall, Jr.
Burger, William Chapman, *S.A.T.C.*
Burnham, Daniel Blodgett, Jr.,
S.A.T.C.
Buxton, Edward Timothy, Jr.,
Soph.

Cabana, Alexander Everett, *S.A.T.C.*
Callahan, Joseph Mortimer, *S.A.T.C.*
Cameron, John Lawson, *S.A.T.C.*
Camp, Gregory Nott, *Soph.*
CANADAY, WILBUR DARE,
Commanding Officer
Carman, George Bergen, *S.A.T.C.*
Castle, Newton Brown, *S.A.T.C.*
CHAPIN, ALFRED CLARK, *Trustee*
Chapin, Alfred Hastings, Jr.,
S.A.T.C.
Chapman, Alexander Hamilton,
S.A.T.C.
Charnley, Mitchell Vaughn, *S.A.T.C.*
Clapp, Lloyd Ernest, *S.A.T.C.*
CLARK, DAVID TAGGART, *Asst. Prof.*
Clark, Frederick Hale, *S.A.T.C.*
Clark, Rufus Campion, *S.A.T.C.*
Clark, Russell Crosby, *S.A.T.C.*

- Clark, Warren Cook, *S.A.T.C.*
 CLARKE, SAMUEL FESSENDEN,
Prof. Emer.
 Clarkson, Lloyd, *S.A.T.C.*
 CLELAND, HERDMAN FITZGERALD,
Prof.
 Coan, Howard Radcliffe, *S.A.T.C.*
 Coates, Wendell Morris, *S.A.T.C.*
 Coats, Guy Harold, *S.A.T.C.*
 Cobb, Clement Biddle Penrose,
S.A.T.C.
 Cole, Richard Barton, *S.A.T.C.*
 Coleman, Sheldon Townsend,
S.A.T.C.
 Coleman, Walter Donald, *S.A.T.C.*
 Collins, James Steffan, *S.A.T.C.*
 COLTON, RAYMOND M.,
Rifle Inst. and Adj.
 Combes, Richard deRaismes Storey,
S.A.T.C.
 Conklin, Charles Clement, *S.A.T.C.*
 Conklin, Ferris Richardson, *S.A.T.C.*
 Connor, Edward Ewen, *S.A.T.C.*
 Corbin, Donald Cheney, *S.A.T.C.*
 Coughlin, Harold Edward, *S.A.T.C.*
 Count, Earl Wendel, *S.A.T.C.*
 Craig, David Norman, *S.A.T.C.*
 CRANE, WINTHROP MURRAY, *Trustee*
 Crofts, John Wensley, *S.A.T.C.*
 CRU, ALBERT LOUIS, *Inst.*
 CRU, JEAN NORTON, *Inst.*
 Cruse, Donald, *S.A.T.C.*
 Cutler, Charles Mann, *S.A.T.C.*
 Cutler, Edward DeLorme, *S.A.T.C.*
 Dana, William Dale, *S.A.T.C.*
 Daniels, Fred Chapman, *S.A.T.C.*
 Dartt, Earl Henry, *S.A.T.C.*
 Davis, Waters Smith, Jr., *S.A.T.C.*
 DELANO, EUGENE, *Trustee*
 deLaval, William Walker, *Soph.*
 Dessau, Herbert Arnold, *S.A.T.C.*
 Dew, George Stanley, *S.A.T.C.*
 Dewey, Daniel, *S.A.T.C.*
 DEWEY, FRANCIS HENSHAW, *Trustee*
 Dewey, George Tufts, Jr., *S.A.T.C.*
 DEWEY, HARRY PINNEO, *Trustee*
 DICKERMAN, SHEERWOOD OWEN,
Asst. Prof.
 Dickinson, Edwards Haven, *S.A.T.C.*
 Dillingham, Winthrop Bulkley,
S.A.T.C.
 Doherty, Randolph, *S.A.T.C.*
 DOUGHTY, WILLIAM HOWARD, Jr.,
Prof.
 Donovan, Francis Edward, *S.A.T.C.*
 Dorsey, Charles Welby, Jr., *S.A.T.C.*
 DROPPERS, GARRETT, *Prof.*
 Dunn, Raymond Laurence, *S.A.T.C.*
 Dunn, Stanley Malcolm, *S.A.T.C.*
 DUTTON, GEORGE BURWELL,
Asst. Prof.
 Eaton, Frederick Heber, *S.A.T.C.*
 Edson, Stuart Franklin, *S.A.T.C.*
 Elliman, James Franklin, *S.A.T.C.*
 Elliot, Chapman Gardiner, *S.A.T.C.*
 ELLIOTT, GEORGE R., *Inst.*
 Ely, Valentine Augustus, *S.A.T.C.*
 Emerson, Richards Haskell, *S.A.T.C.*
 England, Gilbert Moses, *S.A.T.C.*
 EWEN, HARRY R.,
Commanding Naval Unit
 Ewing, Hampton Denman, Jr.,
S.A.T.C.
 Fernald, James Atwater, Jr., *S.A.T.C.*
 Field, Francis Eugene, *S.A.T.C.*
 Field, Marcus Rose, *Fr.*
 Fieser, Louis Frederick, Jr., *S.A.T.C.*
 Finder, William, *S.A.T.C.*
 Fitch, Clinton Willis, *S.A.T.C.*
 Fitch, Lawrence Elliott, *S.A.T.C.*
 Fleming, Peter Baldwin, *S.A.T.C.*
 Fowler, Thomas James, *S.A.T.C.*
 Fraenckel, Carl Hartwig, *S.A.T.C.*

- Fraker, Charles Dickerman, *S.A.T.C.*
 Frazier, Frederic William, *S.A.T.C.*
 Freeman, Louis Bryant, *S.A.T.C.*
 Fulle, Frederick William, Jr.,
S.A.T.C.
- GALBRAITH, JOHN SAYWARD,
Asst. Prof.
 Gardiner, William Arthur, *S.A.T.C.*
 Gardner, Abraham Brookins,
S.A.T.C.
- GAREY, ETHEL, *Library Asst.*
 Garfield, Edward Williams, *S.A.T.C.*
 GARFIELD, HARRY AUGUSTUS,
President
 Gay, Sherwood Beach, *S.A.T.C.*
 Gebhardt, Louis Frederick, *S.A.T.C.*
 Germain, Merrill Henry, *S.A.T.C.*
 Golden, Albert Irving, *S.A.T.C.*
 Goodrich, Donald Wells, *S.A.T.C.*
 GOODRICH, FRANK, *Prof.*
 Gordon, George William, *S.A.T.C.*
 Gray, Julius Caulkins, *S.A.T.C.*
 GREEN, ELMER ALANSON,
Registrar, and Sec'y Faculty
 Greer, Henry Kirk, *Fr.*
 GRIFFIN, SOLOMON BULKLEY, *Trustee*
 Grindy, Roy Melvin, *S.A.T.C.*
 GRISCOM, ELLWOOD, Jr., *Asst. Prof.*
 Grout, Marshall, *S.A.T.C.*
 Gummey, Charles Henry, Jr.,
S.A.T.C.
- Hafner, Otto Henry, *S.A.T.C.*
 Hahlo, Robert Herman, *S.A.T.C.*
 Hall, Stephen Austin, *S.A.T.C.*
 Harder, Charles Nicholas, *S.A.T.C.*
 Hardie, Joseph Polk, *S.A.T.C.*
 HARDY, JAMES GRAHAM, *Prof.*
 HART, WILLIAM COOK, *Asst. Treas.*
 Haubrich, Bernard Page, *S.A.T.C.*
 HEALY, JAMES EDWARD, JR., *Asst.*
 Hess, John Jacob, *S.A.T.C.*
- Henderson, Ernest Kirtland, Jr.,
S.A.T.C.
 HEWITT, JOHN HASKILL, *Prof. Emer.*
 HEWITT, THEODORE BROWN,
Asst. Prof.
 Hibbard, Robert Sargent, *S.A.T.C.*
 Hiser, George Morrison, *S.A.T.C.*
 Hodgkins, Robert Clifton, *S.A.T.C.*
 Hollingshead, John Hinton, *Fr.*
 Holsten, Edward Lawrence, *S.A.T.C.*
 Hopkins, Stephen Woolsey, *S.A.T.C.*
 HOWARD, FREDERIC HOLLIS, *Prof.*
 HOWES, GEORGE EDWIN, *Prof.*
 HOYT, WILLARD EVANS, *Treas.*
 Hoyt, Willard Evans, Jr., *S.A.T.C.*
 Huckel, William, *S.A.T.C.*
 Hughes, Edwin G., Jr., *Sr.*
 Humes, Jo Allison, *Fr.*
 Humphreys, Otho Fairfield, Jr.,
S.A.T.C.
- Huyck, John Niles, *Soph.*
 Hyde, Douglas Anderson, *S.A.T.C.*
 Hyndman, Robert Bruce, *S.A.T.C.*
- Illingworth, Stanley Booth, *S.A.T.C.*
 Irwin, Dudley Marvin, Jr., *S.A.T.C.*
 Irwin, Louis Sherwood, *S.A.T.C.*
- Jacobsen, Victor Leonard, *S.A.T.C.*
 Jaques, Channing Kingsland,
S.A.T.C.
 Jeffreys, Lee Charles, *S.A.T.C.*
 Jennings, Arthur Osborne, *S.A.T.C.*
 JENNINGS, FREDERICK BEACH, *Trustee*
 Johannesen, Richard Irwin, *Jr.*
 JOHNSON, CARL WILHELM,
Asst. Prof. and Personnel Adj.
 Johnson, Edward Whitney, *S.A.T.C.*
 Johnson, Howard Sedgwick, *S.A.T.C.*
 Johnston, William Rutledge, *S.A.T.C.*
 Jones, Damon Everett, *S.A.T.C.*
 Jones, Homer Warren, *S.A.T.C.*
 Jopling, Tom, *S.A.T.C.*

Joslyn, Alan Wilson, *S.A.T.C.*
JOYCE, JOHN J., *Disciplinary Officer*

Keen, Harold Rittenhouse, *S.A.T.C.*
Kellers, Charles Frederick, *S.A.T.C.*
KELLOGG, JAMES LAWRENCE, *Prof.*
Kieser, Alfred Frederic, *S.A.T.C.*
Kimball, Rawson Jackson, *S.A.T.C.*
Kimball, Thomas Glentworth,

S.A.T.C.

Kimberly, Charles Hazard, *S.A.T.C.*
KINCAID, GEORGE, *Supply Officer*
King, Ralph Tewksbury, *S.A.T.C.*
King, Woods, *S.A.T.C.*
Kinnell, David Clark, *S.A.T.C.*
Knox, John Oscar Borg, *S.A.T.C.*
Kohns, Paul Lazarus, *S.A.T.C.*

Lafave, Arthur Joseph, *S.A.T.C.*
Lahiff, Raymond Francis, *S.A.T.C.*
Landesman, William, *S.A.T.C.*
Lasch, Francis Quackenboss, *S.A.T.C.*
Lavalle, Albert Augustus, *S.A.T.C.*
Lawder, Henry Miller, *Fr.*
Lawder, Hervey Crampton, *Fr.*
Learned, John, *S.A.T.C.*
Lee, Alford Ashton, *S.A.T.C.*
Lee, Oliver Vanderbilt, *S.A.T.C.*
Lee, Philip Arthur, *S.A.T.C.*
LEFAVOUR, HENRY, *Trustee*
LEWIS, EDWARD MORGAN, *Trustee*
Lewis, Richmond, *S.A.T.C.*
LICKLIDER, ALBERT HARP, *Asst. Prof.*
Loizeaux, J. Harold, *S.A.T.C.*
LONG, ORRIS WILLIAM, *Asst. Prof.*
Low, Frank Mathias, Jr., *S.A.T.C.*
Luedeke, William Paul, Jr., *S.A.T.C.*
LYMAN, CHARLES V., *Inst.*
Lyon, Hiram William, *S.A.T.C.*

McELFRESH, WILLIAM EDWARD, *Prof.*
McFarlin, Donald Welles, *S.A.T.C.*
McLAREN, WALTER WALLACE, *Prof.*

McLean, Donald, *S.A.T.C.*
McWhorter, Emerson Hopkins, Jr.,
S.A.T.C.

McLoud, William Roeder, *Fr.*
MacMillan, Francis, *S.A.T.C.*
MacNair, Everett Wilmer, *Soph.*
Macomber, Forrest Hall, *S.A.T.C.*
Mahan, Alfred Whittlesey, *S.A.T.C.*
Marshall, Carter Lee, *S.A.T.C.*
Martyn, Hamill Davis, *S.A.T.C.*
Mason, Ralph Clinton, *S.A.T.C.*
MAXCY, CARROLL LEWIS,
Dean, and Prof.

MEARS, BRAINERD, *Prof.*
Meirowitz, Abraham Harry, Jr.
Mellen, Amory, *S.A.T.C.*
Mendes, John Dingee, *S.A.T.C.*
Mendleson, Samuel, *S.A.T.C.*
Merriam, Adelbert Lewis, *Fr.*
MERRIAM, EDITH MARGUERITE,
Stenographer

Metcalf, James Irwin, *S.A.T.C.*
MILHAM, WILLIS ISBISTER, *Prof.*
Miller, Donald Bedell, *S.A.T.C.*
MILLS, FRANKLIN HUBBELL, *Trustee*
Mills, John Tyler, Jr., *S.A.T.C.*
Milne, Gordon, *S.A.T.C.*
Milton, Stanley Baker, *S.A.T.C.*
Miner, Philip MacDonald, *S.A.T.C.*
Mixer, Knowlton, Jr., *S.A.T.C.*
Montgomery, John Rogerson, Jr.,
S.A.T.C.

Moody, John Edmund, *S.A.T.C.*
Moody, John Mohler, *S.A.T.C.*
Moore, Walden Goff, *S.A.T.C.*
MORTON, ASA HENRY, *Prof.*
Muckenhaupt, Carl Frederick, *Fr.*
MUIR, LILLIAN MAY, *Stenographer*
Munger, Ralph Smith, *S.A.T.C.*
MURRAY, JAMES F., *Asst. Adj.*

NETHERWOOD, EMMA LOUISE,
Stenographer

- NETHERWOOD, HELEN MAY,
Stenographer
 Newell, John Dewey, *S.A.T.C.*
 Newman, George Alexander, 3rd,
S.A.T.C.
 Nichols, Herman Jones, *S.A.T.C.*
 Noble, Charles Casper, *S.A.T.C.*
 Noble, William Holden, *S.A.T.C.*
 North, Edgerton Grant, *S.A.T.C.*
 Northrop, John Burr, *S.A.T.C.*

 O'Connor, Charles Francis, *S.A.T.C.*
 OLDS, FRANK W., *Contract Surgeon*
 Oliver, Minturn, *S.A.T.C.*
 Olmsted, William Flagg, *S.A.T.C.*
 Oppenheimer, George Seligman,
S.A.T.C.
 OSBORNE, LUCY EUGENIA, *Cataloguer*
 Ostrander, George Nelson, Jr.,
S.A.T.C.

 Painter, Fernald Ellsworth, *S.A.T.C.*
 Palmer, George William, *S.A.T.C.*
 Parker, Charles Kenneth, *S.A.T.C.*
 Parker, Reinold Marvin, *S.A.T.C.*
 Patch, Henry Thurston, *S.A.T.C.*
 Paterson, James Hamilton, *S.A.T.C.*
 Pattison, Edgar Young, *S.A.T.C.*
 Pattison, Eric Howard, *S.A.T.C.*
 Patton, Philip Stokes, *S.A.T.C.*
 Pease, Herbert Russell, *S.A.T.C.*
 Peckham, Sherwood Townsend,
S.A.T.C.

 PELL, JOSEPHUS D., *Mess Officer*
 Perry, Arthur Bliss, *S.A.T.C.*
 PERRY, BLISS, *Trustee*
 Perry, Rogers, *S.A.T.C.*
 PEW, WILLIAM A.,
Commanding Officer
 Phillips, Philip, *S.A.T.C.*
 Phillips, Spencer, *S.A.T.C.*
 Phillips, Stuart, *S.A.T.C.*
 Piatt, John Robert, *S.A.T.C.*

 Pike, Charles Sherman Bentley,
S.A.T.C.
 Plummer, Thomas Rodman, 2nd, *Fr.*
 Poncet, Gilbert Claude, *S.A.T.C.*
 Potter, Everett Hughes, *S.A.T.C.*
 Power, John Whittelsey, *S.A.T.C.*
 PRATT, JAMES BISSETT, *Prof.*
 Prescott, Henry Sherwin, *S.A.T.C.*
 Prescott, William Howard, Jr.,
S.A.T.C.
 PRICE, CHRISTINE, *Librarian in Charge*
 Prime, Ralph Earl, III, *Soph.*
 Pring, Kenneth Frederick, *S.A.T.C.*
 Purcell, Thomas Francis, *S.A.T.C.*

 Ransford, Carroll Frank, *S.A.T.C.*
 Raphael, Charilaus George Chaou-
 shoglou, *S.A.T.C.*
 REES, BYRON JOHNSON, *Prof.*
 Reinhardt, John Gray, *S.A.T.C.*
 RICE, JOHN PIERREPONT, *Asst. Prof.*
 RICE, RICHARD AUSTIN, *Prof. Emer.*
 Richardson, Arthur Hall, *S.A.T.C.*
 Richardson, William Rittenhouse, *Fr.*
 Richmond, Charles Stewart, *S.A.T.C.*
 Richmond, Donald Crowell, *S.A.T.C.*
 Rickards, Reese Frederick, *S.A.T.C.*
 ROCKWOOD, MARJORIE RUSSELL,
Library Asst.
 Rood, Philip Nichols, *S.A.T.C.*
 Rose, Alfred Oscar, *S.A.T.C.*
 Rose, Douglas Hall, 2nd, *S.A.T.C.*
 Roth, Fred Henry, *S.A.T.C.*
 Rounds, George Irving, *S.A.T.C.*
 Rounds, Harry Macdonald, *S.A.T.C.*
 Rubino, Robert, *S.A.T.C.*
 Rundell, James Rupert, *S.A.T.C.*
 Russell, Clarence Wilson, *S.A.T.C.*

 Sackett, Ray Palmer, *S.A.T.C.*
 Saito, Jinichi, *Grad.*
 SALTER, SUMNER, *Director of Music*
 Sanford, Harold Crooker, *S.A.T.C.*

Sayen, Harrison Kimball, *S.A.T.C.*

Schauffler, Harry Klock, *S.A.T.C.*

Schelling, Clinton Wolf, *S.A.T.C.*

Schenck, Theodore Maynard,
S.A.T.C.

Schermerhorn, John Neff, *S.A.T.C.*

Schlesinger, Alfred Cary, *S.A.T.C.*

Schmidt, Bruno Moritz, *S.A.T.C.*

Scott, Clarence Wood, *S.A.T.C.*

Scott, Kenneth, *Fr.*

Seager, George Bradley, *S.A.T.C.*

Seaman, Edward Rees, *S.A.T.C.*

Searls, George Bentley, *Soph.*

Secor, George Barnes, *S.A.T.C.*

SEELEY, CHARLES FREDERICK,
Director of Gym.

Seibert, Charles Alexander, *S.A.T.C.*

SHELDON, GLADYS, *Asst. Alumni Sec'y*

SHEPARD, ELMER IRWIN, *Asst. Prof.*

Sherman, Edward Willis, Jr., *S.A.T.C.*

Sidley, William Dupee, *S.A.T.C.*

SIDLEY, WILLIAM PRATT, *Trustee*

Simonds, Harold Clark, *S.A.T.C.*

Slack, Walter Knapp, *S.A.T.C.*

Small, Nelson Herrick, *S.A.T.C.*

SMEDLEY, PERRY ALVAN,
Supt. of Buildings

Smedley, Sherwood Perry, *S.A.T.C.*

Smeeth, Edwin Elliott, Jr., *S.A.T.C.*

Smith, Frederick William, Jr., *Jr.*

Smith, Howard Caswell, Jr., *Fr.*

Smith, Oliver Dow, Jr., *S.A.T.C.*

Smith, Paul Reed, *S.A.T.C.*

Smith, Robert Whitelaw, *S.A.T.C.*

SMITH, THEODORE CLARKE, *Prof.*

Squire, Daniel Hubbard, Jr.,
S.A.T.C.

Starbuck, Elwood T., *S.A.T.C.*

Stebbins, Henry Martin, *Sr.*

Steele, Claude Bradford, *S.A.T.C.*

STETSON, FRANCIS LYNDE, *Trustee*

Stevenson, William Mansfield, Jr.,
S.A.T.C.

Stewart, Francis Barretto, *S.A.T.C.*

Story, Bradford Field, *S.A.T.C.*

Story, Roy Leon, *S.A.T.C.*

Stout, William Wilson, *S.A.T.C.*

Stubbs, William Chisholm, Jr.,
S.A.T.C.

Sullivan, Eugene Patrick, *S.A.T.C.*

Sutphen, Frederick Ten Eyck,
S.A.T.C.

SWEETSER, ANNA MARTHA,
Library Asst.

Sweeley, Harold Leslie, *S.A.T.C.*

Tatem, Joseph Moore, *S.A.T.C.*

TATLOCK, ORRETT, *Inst.*

Taylor, Charles Lincoln, Jr., *S.A.T.C.*

TAYLOR, ROBERT LONGLEY, *Prof.*

TERRY, CHARLES THADDEUS, *Trustee*

Thexton, Arthur Louis, *S.A.T.C.*

Tiebout, Todd Groesbeck, *S.A.T.C.*

Titus, Arthur Rossiter, *S.A.T.C.*

TREADWAY, LAURIS GOLDSMITH,
Auditor of the Commissary Dept.

Tucker, Allen Marshall, *S.A.T.C.*

Tucker, Charles, *S.A.T.C.*

Tyler, David Budlong, *S.A.T.C.*

Ufford, Henry Mandeville, *S.A.T.C.*

Ullery, Richard Stockton, *S.A.T.C.*

Van Deusen, Charles Werter,
S.A.T.C.

Van Hoesen, Enderse Gross, *S.A.T.C.*

Van Saun, William Floyd, *S.A.T.C.*

van Zelm, John Anthony, Jr.,
S.A.T.C.

Vercoe, Joseph McCord, *S.A.T.C.*

VILES, GEORGE BURRIDGE, *Inst.*

Volk, Ralph Leonard, *S.A.T.C.*

Vroman, Barent Sloane, *S.A.T.C.*

WAHL, GEORGE MORITZ, *Prof. Emer.*

Wakeman, Joseph Allen, *S.A.T.C.*

Wallace, Dudley Brabner, *S.A.T.C.*
Wallace, John William, *S.A.T.C.*
Ward, Christopher Longstreth, Jr.,
S.A.T.C.
Waring, Sumner James, *S.A.T.C.*
Warner, John Eliot, *S.A.T.C.*
WARREN, BENTLEY WIRT, *Trustee*
Warren, Bentley Wirt, Jr., *S.A.T.C.*
Warren, Frank William, *S.A.T.C.*
Washburne, James Russell, *S.A.T.C.*
Wells, Donald Whitsett, *S.A.T.C.*
Wentworth, Roger Wood, *S.A.T.C.*
Wentworth, Silas Elisha, *S.A.T.C.*
WESTON, KARL EPHRAIM, *Prof.*
WETMORE, MONROE NICHOLS, *Prof.*
Wheeler, Edgar Thorne, *S.A.T.C.*
White, Harold Harrison, *S.A.T.C.*
Whitman, Edmund Speere, *S.A.T.C.*
Wickes, Henry Herriman, *S.A.T.C.*
Wilcox, Vincent Fiske, Jr., *S.A.T.C.*
WILD, HENRY DANIEL, *Prof.*
Wilkinson, Albert Groll, *Soph.*
Williams, Allan Barton, Jr., *S.A.T.C.*
WILLIAMS, CLARK, *Trustee*
Williams, Clark, *S.A.T.C.*
Williams, James Burnham, *S.A.T.C.*
Wilmer, William Holland, Jr.,
S.A.T.C.
Wilson, Harold Stuart, *S.A.T.C.*
Wilson, John Ellis, *S.A.T.C.*
Winalow, Stewart, *S.A.T.C.*
Withrow, John Andrew, *S.A.T.C.*
Wolfe, Walter Bernard, *Fr.*
Wood, Kenneth Taylor, *S.A.T.C.*
Woodward, Burton Knowlton, Jr.,
S.A.T.C.
Woodward, Henry Abbe, *S.A.T.C.*
Wyckoff, Edward Guild, Jr., *S.A.T.C.*
Wylde, Frank Ewart, *S.A.T.C.*
Youngman, Arthur Vreeland,
S.A.T.C.
Zalles, George Ezekiel, *Fr.*
Zeitler, William Irving, *S.A.T.C.*

APPENDIX



STUDENTS ARMY TRAINING CORPS

CALENDAR

1918-1919

*First term.....October 1-December 21
Second term.....December 30-March 22
Third term.....March 31-June 21

* The Students Army Training Corps was demobilised on December 12.

OFFICERS*

WILBUR DARE CANADAY	<i>Commanding Officer</i> †	Captain, U. S. A.
WILLIAM A. PEW	<i>Commanding Officer</i> **	Major, U. S. A., Unassigned
GEORGE R. ELLIOTT	<i>Instructor</i>	1st Lieut., 104th Inf., U. S. A.
CHARLES V. LYMAN	<i>Instructor</i>	1st Lieut., 26th Inf., U. S. A.
CARL W. JOHNSON	<i>Personnel Adjutant</i>	2nd Lieut., Inf., U. S. A.
GEORGE KINCAID	<i>Supply Officer</i>	2nd Lieut, Inf., U. S. A.
JOSEPHUS D. PELL	<i>Mess Officer</i>	2nd Lieut., Inf., U. S. A.
JAMES F. MURRAY	<i>Assistant Adjutant</i>	2nd Lieut., Inf., U. S. A.
JOHN J. JOYCE	<i>Disciplinary Officer</i>	2nd Lieut., Inf., U. S. A.
RAYMOND M. COLTON	<i>Rifle Instructor and Adjutant</i>	2nd Lieut., Inf., U. S. A.
HARRY R. EWEN	<i>Commanding Naval Unit</i>	Ensign, U. S. N. R. F.
VANDERPOEL ADRIANCE	<i>Contract Surgeon, U. S. A.</i>	
FRANK W. OLDS	<i>Contract Surgeon, U. S. A.</i>	

* Arranged in the order of assignment to duty.

† From August 30 to October 7.

** From October 7.

STUDENTS ARMY TRAINING CORPS

The Students Army Training Corps is raised under the authority of the Act of Congress, approved May 18, 1917, commonly known as the Selective Service Act, authorizing the President to increase temporarily the military establishment of the United States, as amended by the Act of August 31, 1918, and under General Order number 79 of the War Department, dated August 24, 1918, as follows:

Under the authority conferred by sections 1, 2, 8, and 9 of the Act of Congress "authorizing the President to increase temporarily the military establishment of the United States," approved May 18, 1917, the President directs that for the period of the existing emergency there shall be raised and maintained by VOLUNTARY INDUCTION AND DRAFT a Students Army Training Corps. Units of this Corps will be authorized by the Secretary of War at EDUCATIONAL INSTITUTIONS that meet the requirements laid down in Special Regulations.

The object of establishing units of the Students Army Training Corps is to utilize effectively the plant, equipment, and organization of the colleges for selecting and training officer-candidates and technical experts for service in the existing emergency.

A Collegiate Section of a Students Army Training Corps unit will include those who have graduated from a standard, four-year, secondary school, or have equivalent educational qualifications.

Upon admission to the Students Army Training Corps a registrant becomes a soldier in the Army of the United States. As such he is subject to military law and to military discipline at all times.

The instruction is partly in military subjects and partly in allied subjects that have value as a means of training officers and experts to meet the needs of the service. The average number of hours to be devoted each week to those subjects is as follows:

- (1) Military subjects, including practical instruction, drill, etc., theoretical military instruction, and physical training—eleven hours.
- (2) Allied subjects, including lectures, recitations, laboratory instruction, and the necessary preparation therefor—forty-two hours. (Each hour of lecture or recitation will ordinarily require two hours of supervised study.)

The allied subjects will ordinarily be selected from the following list: English, French, German, Mathematics, Physics, Chemistry, Biology, Psychology, Geology, Geography, Topography and Map Making, Meteorology, Astronomy, Hygiene, Sanitation, Descriptive Geometry, Mechanical and Freehand Drawing, Surveying, Economics, Accounting, History, International Law, Military Law, and Government.

Permission may be granted for the recognition, as an allied subject, of not more than one subject outside the above list provided that it occupies not more than three hours a week in lectures and recitations with corresponding time for study.

The program of study in allied subjects must include a course on the underlying issues of the war. This may be planned as a special War Issues course with a minimum of three classroom hours a week, with corresponding time for study, covering three terms; or the requirement may be met by a course or courses in history, government, economics, philosophy, or modern literature where these courses are so planned as, in the opinion of the Educational Director, to accomplish substantially the same purpose.

COURSES OF INSTRUCTION

FRENCH

FRENCH A. *Introductory French.*

A course in simple spoken and written French designed to be of practical value to the soldier in France.

Elective Course.

Five hours a week.

Professor WESTON.

French A, Special. An abbreviation of the foregoing course.

Professor MORTON.

FRENCH B. *Conversational French.*

A course continuing the work of *French A*, but more intensified and somewhat more technical in character.

Elective course.

Five hours a week.

Assistant Professor RICE, Professor MORTON, Dr. VILES, and Mr. HEALY.

French B, Special. An abbreviation of the foregoing course.

Assistant Professor RICE.

GERMAN

GERMAN B. A course in conversation and composition intended to provide the student with a practical use of the language. Especial emphasis will be laid upon technical vocabulary.

Elective course.

Five hours a week.

Assistant Professor LONG and Assistant Professor HEWITT.

German B, Special. An abbreviation of the foregoing course.

Elective course.

Three hours a week.

Assistant Professor LONG and Assistant Professor HEWITT.

ENGLISH

ENGLISH COMPOSITION. A course similar to Rhetoric 1-2 in its aim and in its method. Drill in the fundamentals; the paragraph, the sentence, use of words, spelling, and punctuation. Text-book and book of selections, themes on subjects suggested by the War, field messages, military correspondence

All written work is criticised in detail by the instructor and corrected by the student.

Elective course in the first term.

Three hours a week.

Professor REES, Assistant Professor ALLEN, Assistant Professor LICKLIDER,
and Assistant Professor GRISCOM.

WAR ISSUES

WAR ISSUES.

First Term. A study of the governments of the United States, Germany, Austria-Hungary, Great Britain and the British Empire, France and Italy, with special attention to the nature and exercise of political power in them. The fundamental contradiction between the spirit and method of government in the Teutonic powers and in the countries associated against them is the central feature of the course.

Required course.

Three hours a week, one lecture and two recitations.

Professor SMITH, Professor PRATT, Acting Professor McLAREN, Assistant Professors DUTTON and BUFFINTON.

HISTORY

MILITARY HISTORY, 1861-1905. A survey of the conduct of war in modern times as illustrated in the American Civil War, the Seven Weeks' War, and the Franco-German, Turko-Russian, Spanish-American, Boer, and Russo-Japanese wars. Lectures, recitations, assigned reading, preparation of maps and battle plans and frequent written tests.

Elective course, first term.

Three hours a week.

Professor SMITH.

ECONOMICS AND ACCOUNTING

I. The fundamental principles of Economics with a brief treatment of the economic resources and development of the United States. Summary introduction to one or more of the modern labor problems.

II. The principles of Commercial Bookkeeping and General Accounting with their applications in practice. Classification and subdivision of accounts; the nature and forms of the books; and the aim and significance of the ordinary work of the business accountant. Constant practice and problems.

Bullock's *Introduction to the Study of Economics* and Kester's *Accounting—Theory and Practice*. Vol. I.

Required course for limited service men.

Five hours a week during the first term.

Assistant Professor CLARK.

MILITARY LAW AND PRACTICE

International Law on the subjects of War, Right of Legation, Treaties; Rules of Land Warfare and Military Customs; United States Army Organization; selected readings from *Army Regulations*. Recitations, an occasional lecture, weekly tests.

Required course in the first term.

Three hours a week.

Acting Professor McLAREN and Assistant Professor ALLEN.

GOVERNMENT

GOVERNMENT OF THE UNITED STATES. An outline study of its theory, structure, and operation, with a view to an understanding of the institutions and political ideals for the preservation of which in particular we as a people are fighting.

Elective course.

Three hours a week during the first term.

Professor DOUGHTY.

INTERNATIONAL LAW. An outline study of its nature and content, attention being especially directed to those departments bearing particularly upon the present war, as, the rights and obligations of neutrals; the laws of war on land and on sea; the rights and obligations arising from the occupation of territory, etc.

Elective course.

Three hours a week during the first term.

Professor DOUGHTY.

MATHEMATICS

MATHEMATICS A. *Algebra and Trigonometry.*

This course follows closely the outline submitted by the War Department. There is a rapid review of elementary algebra with emphasis on graphical methods. Trigonometry is taught with the emphasis on its practical applications and with much attention to accuracy and facility in computation. Brenke's *Trigonometry* is used.

Elective course.

Three hours a week through the first term.

Professor HARDY, Assistant Professor AGARD, and Mr. BOTSFORD.

MATHEMATICS B. *Analytic Geometry and Calculus.*

The greater part of the course is devoted to the elements of analytic geometry, including most of those topics indicated in the outline submitted by the War Department. During the last few weeks the notion of the derivative,

and simple problems in maxima and minima and tangents are taken up. Smith and Granville's *Elementary Analysis* is used.

Elective course.

Three hours a week through the first term.

Professor HARDY and Assistant Professor AGARD.

SURVEYING. Instruction is given through text-books, lectures, and field-work. A topographical survey of a small area is completed, giving practice in measurements with tape and stadia, leveling, triangulation, and plotting. This constitutes a fourth hour in the course on Mapmaking and Surveying.

In two sections, one two-hour exercise a week through the first term.

TRIGONOMETRY. An intensive course in the elements of Plane Trigonometry with special reference to the solution of triangles. Required of those taking Surveying who have not passed Trigonometry.

Required course.

In two sections, one exercise a week through the first term.

Professor HARDY, Assistant Professor AGARD, and Mr. BOTSFORD.

SURVEYING, TOPOGRAPHY AND MAP MAKING

Drill in statement scales, representative fraction scales, graphical scales, and slope scales, and practice in lettering and conventional signs, mapping in the field. First a simple enclosed traverse, with the location of houses, bridges, telephone and telegraph lines, railroads, and other objects of military importance is completed by the student. This is followed by careful work on road, place, and position sketches with much practice in contouring.

Instruction in simple landscape sketching; the interpretation of topographic maps with lantern lectures on the relation of topography to physiography and geological structure; the solution of many problems in visibility.

Required course.

Three hours a week.

Professor CLELAND, Assistant Professor GALBRAITH, Assistant Professor SHEPARD, and Lieutenant MURRAY.

PHYSICS

ELEMENTARY PHYSICS. *General Physics.* The course deals with the elementary facts and principles of Physics and with the applications of physical laws to the experiences and phenomena of daily life. It includes elementary mechanics, heat, magnetism, and electricity.

Elective course.

Five exercises a week for one term; four one-hour periods devoted to lectures and recitations, and one two-hour laboratory period.

Professor McELFRESH and Mr. TATLOCK.

ADVANCED PHYSICS. *Radio Communication.* The elementary principles of wireless telegraphy. Training in sending and receiving messages by the telegraphic code.

Elective course.

Two hours a week for lectures and recitations; five hours a week for practical work.

Professor McELFRESH and Mr. SMALL.

CHEMISTRY

CHEMISTRY A. *General Chemistry.* A course aiming to develop the understanding and appreciation of the importance of chemistry in our national and industrial life. The fundamental laws and concepts of chemical science are demonstrated and discussed, while emphasis is laid upon the application of chemistry to daily life, to the industries, and to many problems which have arisen as a result of the war.

Elective course.

Lectures, two hours; recitations, two hours; laboratory and supervised study, nine hours.

Professor BRAINERD MEARS and Mr. TATLOCK.

CHEMISTRY B. *Organic Chemistry.* A course discussing in brief both the aromatic and aliphatic series of compounds. A knowledge of the important types of organic compounds and reactions is included. Matters relating to drugs, explosives, and gas warfare are emphasized.

Elective course.

Lectures, three hours; laboratory work and supervised study, six hours.

Mr. TATLOCK.

CHEMISTRY C. *Quantitative Analysis.* The work includes the technique of analysis and many typical processes of volumetric and gravimetric analysis together with the analysis of material from the Bureau of Standards. Attention is given to the development of facility in chemical calculations and to ability to appreciate and detect sources of error.

Elective course.

Nine hours a week. Recitations and laboratory work six hours; supervised study, three hours.

Professor BRAINERD MEARS.

BIOLOGY

BIOLOGY A. *Premedical.* A study of single-celled animals and plants, with laboratory work. As much time as possible will be given to work in the laboratory, largely with the idea of familiarizing students with the microscope, and with laboratory methods.

It is planned to follow this with descriptions and dissections of several lower animals.

Elective course.

Four hours a week in the first term.

Professor KELLOGG.

BIOLOGY B. Advanced work in zoölogy with much laboratory work. The Elements of Embryology.

Elective course.

Ten hours a week.

Professor KELLOGG.

SANITATION AND HYGIENE

SANITATION. *The biological side of the subject.* The following topics are included:—The normal functions of the human body; ancient and modern ideas about disease; structure and life-histories of organisms causing diseases; sources and modes of infection; the relation of insects to diseases; contamination and purification of water supply; sanitation of foods; food and nutrition, etc.

Professor KELLOGG.

HYGIENE. The course includes lectures on the great modern victories of hygiene especially as they apply to the army in the field; recruits and recruiting exercise and physical training; the personal hygiene of the soldier; the hygiene of the march, camp and battlefield and the disposal of waste; preventable diseases such as typhoid and other intestinal diseases, diseases due to vermin, and venereal diseases; brief description of first aid work and the care of wounds.

Dr. ADRIANCE.

Lectures and frequent tests.

Required course in the first term.

Three hours a week.

NAVIGATION

The course in Navigation consists of two recitation periods of one hour and one laboratory period two hours each week. Dead Reckoning and Piloting are given. Under piloting are included signaling, the rules of the road, lighting vessels at night, procedure in a fog, and the like. If a course in Trigonometry has not already been completed, that subject must also be taken during the first term.

Elective course.

Professor MILHAM.

MAP READING AND NAVIGATION. This course consists of two recitation periods of one hour and two laboratory periods of two hours each week. About

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